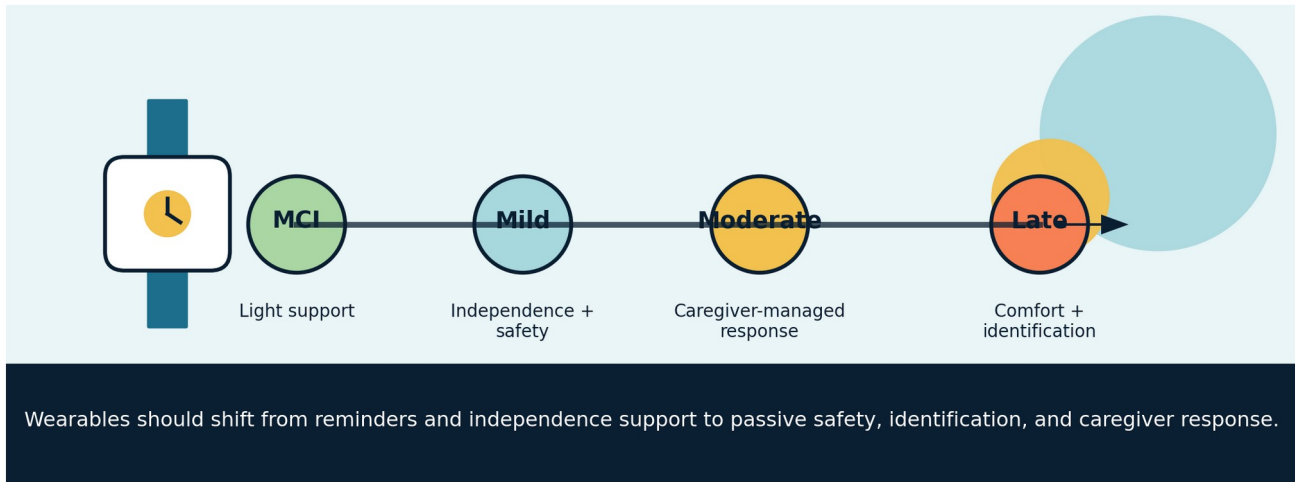


# Wearable Electronic Devices for Alzheimer's Disease and Other Forms of Dementia

*A stage-based report for caregivers and people living with cognitive decline*



**Prepared by Jerry Perone**

Updated: August 11, 2026

*August 2026 edition: current wandering-tracker rankings and pricing, Hawai'i Hānai Memory Network and Silver Alert guidance, AirTag (2nd generation), current AI glasses, AI memory wearables, and discontinued-product status.*

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# 1. Executive Summary [return to TOC](#)

*The highest-value wearable changes as dementia progresses: support independence early, then shift to passive detection, rapid location, identification, and caregiver response.*

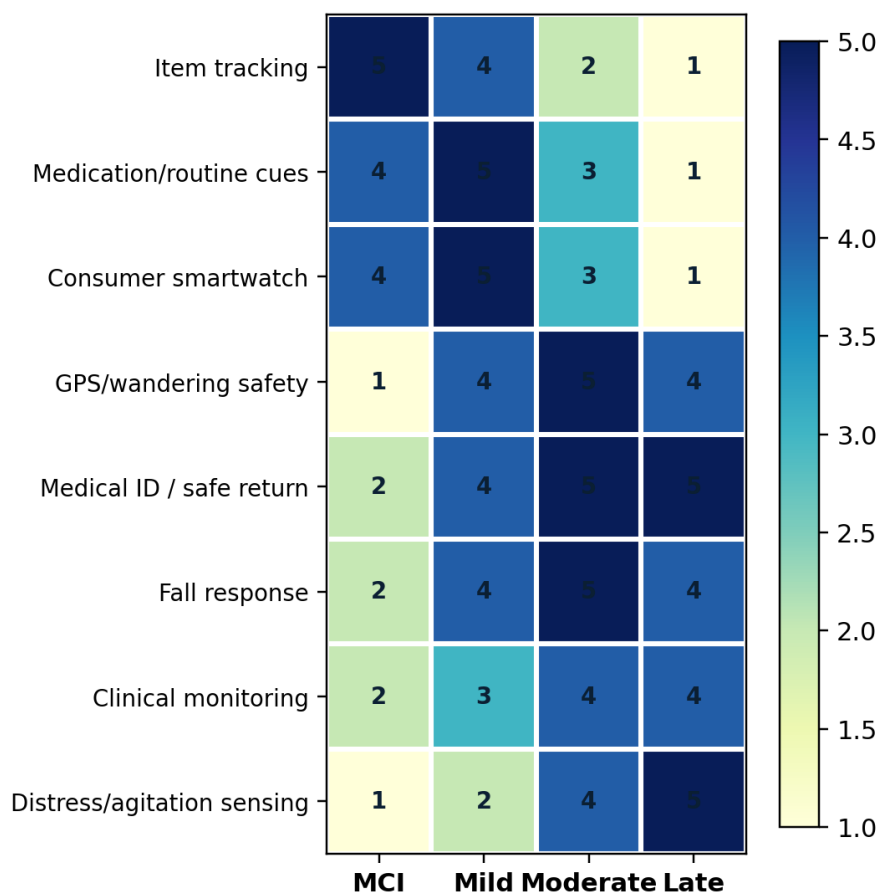
## Core conclusion — August 2026

For a U.S. family-managed wandering plan, the Tranquil GPS Watch is the best single starting tracker when the person will wear a watch and local AT&T coverage is reliable. Its principal advantage is a claimed battery life of up to seven days, plus a locking strap, home-exit and safe-zone alerts, 30-second emergency updates, and auto-answer voice. It is not a complete safety system: pair it with an immediate exit alarm, identification, and a written response plan. AngelSense GPS4 is the stronger second choice when secure, non-removable wearing and continuous tracking matter; GPS SmartSole is the strongest shoe-based choice when visible devices are removed. [31–36, 45]

This report is updated through August 11, 2026. It organizes wearable electronic devices by practical dementia stage, separates products available now from clinician-pathway and investigational options, and incorporates Hawai'i's newly enacted Hānai Memory Network (Act 245), the active Silver Alert NFC wristband program, AirTag (2nd generation), current AI-glasses launches, and changes in AI memory-wearable availability.

| Stage                           | Practical meaning                                                                                                                             | Primary technology goal                                                                                                      |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Mild Cognitive Impairment / MCI | Measurable thinking or memory change, but broad independence remains intact.                                                                  | Normalize support technology early; preserve independence; reduce lost-item frustration.                                     |
| Mild / early dementia           | Daily routines are still possible, but navigation, medication reliability, judgment, or phone use may be declining.                           | Add location, reminders, medical ID, and fall/emergency support while consent and training are still feasible.               |
| Moderate / middle dementia      | Supervision is often needed; wandering, device removal, missed medication, falls, agitation, and inability to use a phone become more likely. | Shift toward caregiver-managed location, passive alerts, auto-answer communication, medical ID, and a defined response plan. |
| Late / severe dementia          | The person may need extensive assistance with daily living, may not understand alerts, and may communicate discomfort through behavior.       | Prioritize comfort, identification, fall response, distress detection, and low-burden staff/caregiver workflows.             |

## Relative Priority of Wearable Categories by Dementia Stage



Scale: 1 = low priority; 5 = high priority. Scores are practical care-planning estimates, not clinical validation scores.

Figure 1. Relative priority of wearable categories by dementia stage.

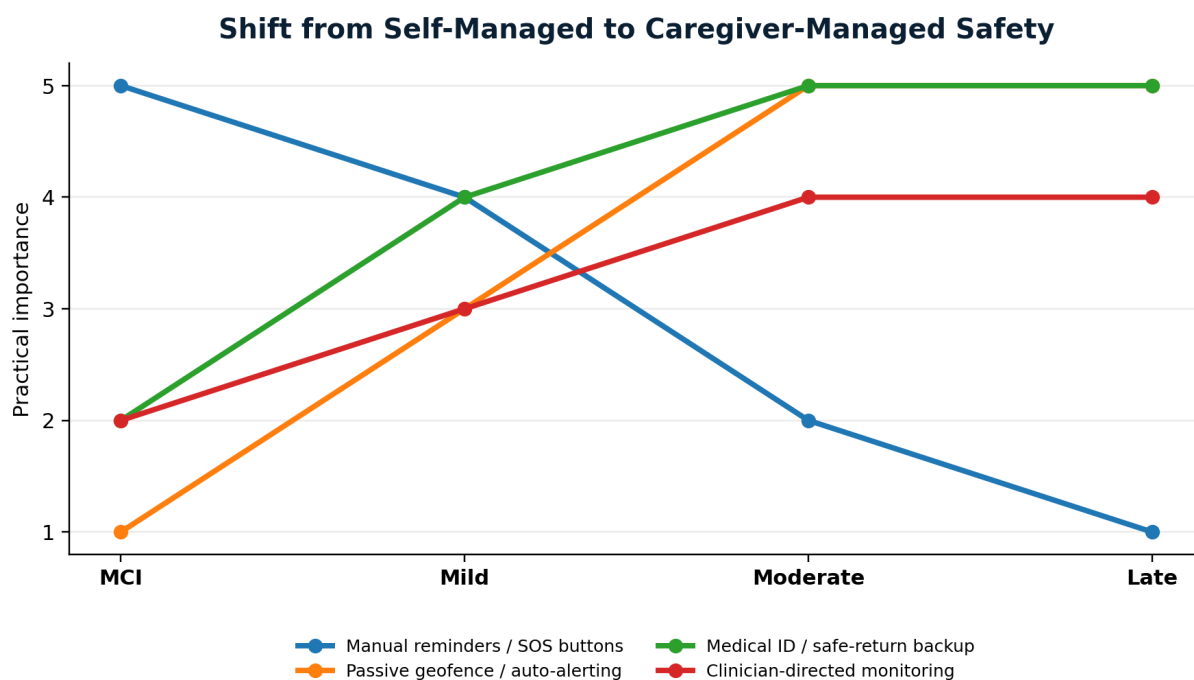


Figure 2. As dementia progresses, passive and caregiver-managed safety layers become more important than self-managed alerts.

## High-level recommendations

| Stage             | Recommended starting stack                                                                                                                                                                              | Avoid relying on                                                                                                               |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| MCI               | AirTag (2nd generation), SmartTag2, or Tile for belongings; a simple smartwatch or memory wearable only if welcomed; hearing evaluation when communication is strained.                                 | Covert tracking, complicated apps, or stigmatizing devices before risk warrants them.                                          |
| Mild dementia     | Tranquil first when a watch is tolerated and AT&T works; otherwise Theora or AngelSense; add medical ID, an immediate door alarm if exit risk exists, and caregiver-verified medication support.        | AirTag alone for wandering risk; any system not tested through the person's building and usual routes.                         |
| Moderate dementia | Dedicated tracker selected by wearing tolerance: Tranquil, AngelSense GPS4, GPS SmartSole, Theora, or a local RF rescue program; add medical ID, immediate exit detection, and a written response plan. | Expecting the person to answer a phone, press SOS reliably, remember charging, or remain safe during a delayed geofence alert. |
| Late dementia     | Medical ID; facility/staff-alert wearables if in memory care; fall response only if tolerated; GPS/RF if elopement remains possible.                                                                    | Complex smartwatches, uncomfortable wearables, or devices that increase agitation or skin risk.                                |

Recommended Wearable Safety Stack by Stage

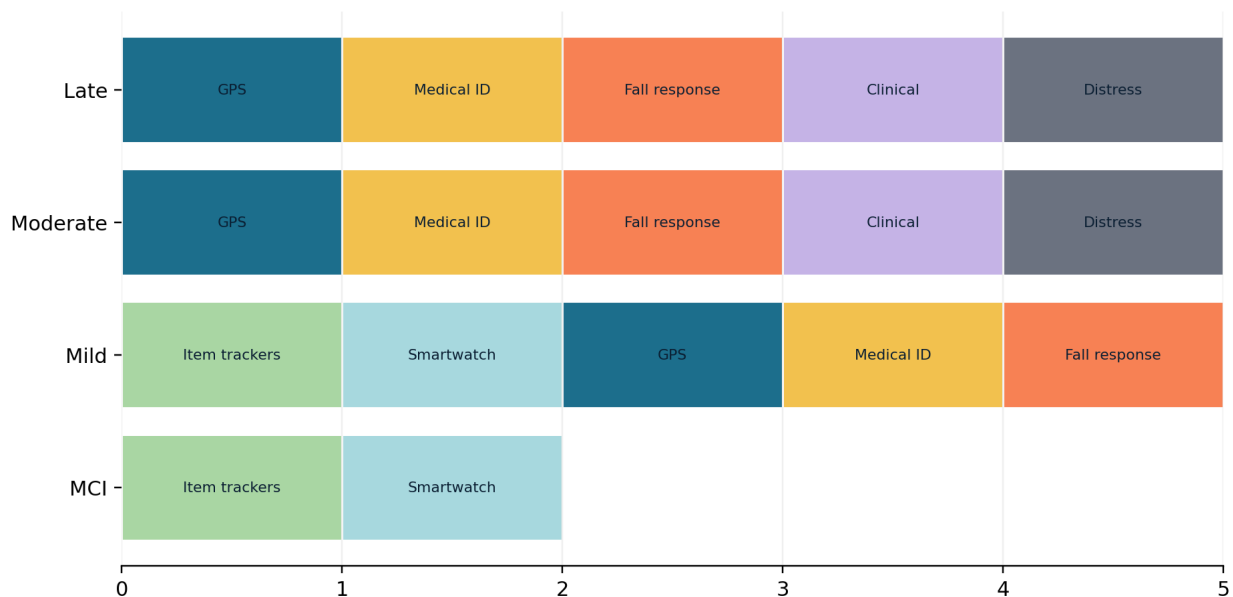


Figure 3. Recommended safety stack by stage.

## 2. Start Here: AirTag, Item Trackers, and True Dementia Safety Trackers [return to TOC](#)

Item trackers and dementia safety trackers solve different problems; the best choice depends on wear tolerance, charging, coverage, and who can respond.

### 2.1 Bottom-line recommendation

- Best single starting tracker: Tranquil GPS Watch, if a watch is tolerated and an on-site test confirms dependable AT&T coverage. The long advertised battery interval reduces one of the most common real-

world failure points. Current independent comparison testing also ranks Tranquil first overall while noting that indoor location can be inconsistent. [31–32, 45]

- Second choice: AngelSense GPS4 when a watch may be removed, non-removable wearing is needed, and continuous tracking, auto-pickup voice, route history, and first-responder sharing outweigh the need for longer battery life. [33–34]
- Third choice: GPS SmartSole when visible watches, pendants, or tags are rejected but the same tracked shoes are worn consistently. [35–36]

## 2.2 Why AirTag remains backup-only—even after the 2026 update

- Apple's 2026 AirTag (2nd generation) improves Precision Finding range and speaker output, but it is still designed for personal items; Apple explicitly says AirTag should not be used to track people. [37–38]
- AirTag has no dedicated cellular GPS, dementia geofences, SOS, two-way or auto-answer voice, professional response workflow, or guaranteed real-time update interval. It depends on nearby Find My devices and includes anti-stalking protections.
- Use AirTag, SmartTag2, or Tile for keys, wallets, purses, walkers, canes, bags, jackets, or shoes. If used as a transparent secondary layer, obtain consent whenever the person can participate; never make it the primary wandering plan.

### Hawai'i high-rise rule

Pair any location tracker with an immediate door/opening alarm and an identification layer. Tranquil's support materials describe a five-minute home-exit timer, and GPS is inherently weakest indoors; concrete towers, hallways, elevators, stairwells, and garages can delay or coarsen a location. [32]

| Priority / product             | Best when                                                                                  | Current price snapshot                                                                                                                | Battery and strengths                                                                                                                                    | Critical limitations                                                                                                                                                     |
|--------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 — Tranquil GPS Watch [31–32] | A watch is tolerated; local AT&T coverage is reliable; family will manage alerts.          | \$945 purchase (sale snapshot); \$44.95/mo with annual billing or \$54.95 monthly. Rental: \$99/mo billed quarterly or \$129 monthly. | Claimed up to 7 days; locking strap; IP67; home beacon and safe zones; 30-second emergency tracking; auto-answer voice; multiple caregivers.             | No monitoring center or advertised automatic fall detection. GPS is weak indoors; 5-minute home-exit timer; battery estimate assumes limited time away from home beacon. |
| 2 — AngelSense GPS4 [33–34]    | Secure/non-removable attachment and continuous tracking matter more than battery duration. | \$229 Guardian Kit; service starts around \$39.99/mo; plan and activation terms vary.                                                 | GPS4 up to 24 hours (watch up to 16); AT&T or T-Mobile; continuous live tracking, geofences, auto-pickup voice, alarm, route history, responder sharing. | Daily charging; IPX7 water-resistant, not fully waterproof; fall detection remains beta/optional; high-control model requires careful consent and dignity planning.      |
| 3 — GPS SmartSole [35–36]      | Visible devices are removed and tracked shoes are worn reliably.                           | \$229 device; \$49/mo service; annual pricing has been advertised around \$429 and should be rechecked.                               | Hidden 4G insole; geozones; IPX7; advertised 24–96-hour runtime; 2–4-hour inductive charge.                                                              | Only works in the tracked shoes; may require wider footwear; test cellular performance through real routes before trimming the insole.                                   |

| Priority / product                            | Best when                                                                                            | Current price snapshot                                                                    | Battery and strengths                                                                                                     | Critical limitations                                                                                                                                       |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alternative — Theora Connect [44]             | Daily charging is feasible and a lower upfront-cost watch with optional fall detection is preferred. | \$297.97 device; \$39.97 activation; \$29.97/mo service; optional fall detection \$10/mo. | 18–24 hours; AT&T/T-Mobile; IP67; safe zones; auto-answer voice; caregiver alerts; optional locking clasp and door alarm. | Calls a caregiver—not 911—and has no professional monitoring center; needs daily charging; automatic fall detection can miss falls or create false alerts. |
| Backup only — AirTag (2nd generation) [37–38] | Finding belongings, or a transparent secondary layer in an Apple household.                          | \$29 each or \$99 for four; no subscription.                                              | Replaceable battery; expanded Precision Finding; louder speaker; Find My network; item sharing.                           | Apple says not to track people. No cellular GPS, dementia geofence, SOS, voice, monitoring, or guaranteed live updates.                                    |

## 2.3 Hawai'i layered safe-walking system

- Immediate exit detection: use a door contact alarm, chime, or caregiver alert that sounds as the door opens; do not wait for GPS or a geofence to be the first signal.
- Primary location layer: select Tranquil, AngelSense GPS4, GPS SmartSole, Theora, or another device according to wear tolerance, charging capacity, carrier coverage, and the person who can physically respond.
- Identification layer: eligible Hawai'i residents can register for the Silver Alert NFC wristband. A finder can tap the battery-free band with a smartphone to view approved emergency details and report the person missing. The band is identification and reporting support—not a GPS locator—and only law enforcement can activate a formal statewide Silver Alert. [39–40]
- Response packet: keep a current face-and-full-body photo, medication and diagnosis list, clothing description, likely destinations, vehicle information if relevant, and at least two emergency contacts ready to share.
- Real-world walking test: test the device in the home, hallways, elevators, stairwells, lobby, garage, street, nearby transit stops, and the person's usual walking routes—for example, Ward Village routes when relevant. Verify alerts on every caregiver phone.

### If the person is missing

Begin searching immediately. If the person is not located within 15 minutes, call 911 and clearly state that the missing person has dementia. Continue the search while law enforcement is being contacted, unless doing so would be unsafe. [43]

## 2.4 Hānai Memory Network implementation opportunity

*Hawai'i enacted HB 1853 as Act 245 on July 14, 2026, establishing the Hānai Memory Network within the Executive Office on Aging and appropriating \$3 million. The statewide model is intended to connect community-based dementia care specialists, memory-clinic partnerships, public education, referrals, care planning, and long-term support, with dedicated expertise across counties and memory-clinic access on the neighbor islands. [41–42]*

- Add a "Safe Walking and Wandering Response" section to every individualized dementia care plan when disorientation, exit-seeking, or elopement risk is present.
- Have a dementia care specialist match the device to watch tolerance, removal behavior, shoe habits, charging support, carrier coverage, caregiver response distance, privacy, and affordability—rather than issuing one product to everyone.

- Pilot a small, mixed set of trackers across all counties before any statewide procurement. Measure wearing adherence, charging failures, exit-alert delay, indoor/outdoor location quality, caregiver response time, incident recovery, technical support burden, and neighbor-island equity.
- Standardize the non-electronic backstop: current photo, medication list, common destinations, emergency contacts, immediate door alert, and Silver Alert NFC wristband registration when eligible.

### Policy boundary

The Safe Walking and Wandering Response module and multicounty device pilot are implementation recommendations for Hānai; they are not requirements stated in Act 245.

## 3. Device Availability Pathways [return to TOC](#)

Caregivers need to know what can be bought today, what requires a clinician, and what remains investigational.

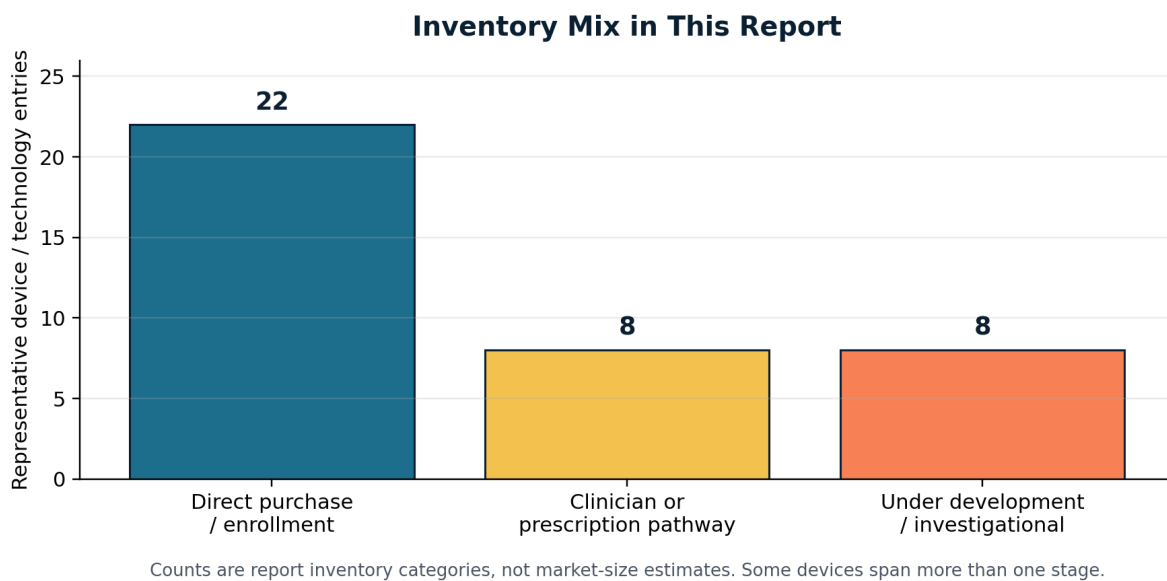


Figure 4. Representative inventory mix covered in this report.

### Available today for direct purchase or enrollment

| Category                | Representative devices                                                            | Best stage fit                            | Specific use                                                     | Key caveat                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Item trackers           | AirTag (2nd generation), SmartTag2, Tile                                          | MCI and mild dementia                     | Lost objects, keys, wallet, walker, cane, bag, shoes             | For belongings only; Apple explicitly says AirTag should not be used to track people.                                        |
| Consumer smartwatches   | Apple Watch, Pixel Watch, Galaxy Watch, Garmin                                    | MCI and mild; selected moderate           | Reminders, calls, SOS, fall detection, fitness, location sharing | Charging and interface complexity.                                                                                           |
| Dementia GPS trackers   | Tranquil, AngelSense GPS4/Watch, Theora Connect, Jibit, GPS SmartSole, MiniFinder | Mild to moderate; selected late if mobile | Geofences, caregiver alerts, auto-answer voice, live location    | Coverage, battery, consent, wearing consistency, alert delay, indoor GPS limits, and the availability of a nearby responder. |
| Medical-alert wearables | Kanega, Bay Alarm SOS, MGMove, Lively Mobile2                                     | Mild to late if tolerated                 | Emergency response, GPS, two-way voice, fall detection           | Fall detection is not perfect; person may not press SOS.                                                                     |

## Wearable Electronic Devices for Alzheimer's Disease and Other Forms of Dementia

| Category                 | Representative devices                                                                 | Best stage fit                           | Specific use                                                                                                            | Key caveat                                                                                                                               |
|--------------------------|----------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Medical ID / safe return | MedicAlert; Hawai'i Silver Alert NFC wristband; QR/non-removable ID; Project Lifesaver | Mild to late                             | Identification and rescue when electronics fail, the person cannot communicate, or a finder needs a rapid contact path. | NFC/medical ID is not a locator; profiles and photos must be kept current; formal Silver Alert activation is a law-enforcement decision. |
| Facility wearables       | CarePredict Tempo and similar platforms                                                | Moderate to late, especially memory care | Indoor location, staff alerts, activity patterns, fall response                                                         | Often enterprise/facility rather than ordinary household purchase.                                                                       |

## Available through a doctor, audiologist, sleep clinic, or prescription pathway

| Category                  | Representative examples                                                                  | Why it matters in dementia care                                             |
|---------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Hearing aids              | Prescription hearing aids; OTC aids for selected mild-to-moderate perceived hearing loss | Communication, reassurance, social participation, reduced miscommunication. |
| CGM                       | Dexcom, FreeStyle Libre                                                                  | Diabetes safety, caregiver sharing, hypoglycemia/hyperglycemia alerts.      |
| Cardiac patch             | Zio and similar ECG patches                                                              | Evaluates unexplained falls, syncope, palpitations, or atrial fibrillation. |
| Sleep diagnostic wearable | WatchPAT and similar home sleep apnea tests                                              | Clarifies sleep apnea and sleep-related contributors to fatigue/confusion.  |
| Seizure monitor           | Empatica EpiMonitor                                                                      | Prescription adjunct for seizure alerts and documentation.                  |
| Clinical actigraphy       | Wrist activity/sleep monitor                                                             | Objective sleep-wake and routine data for sleep or behavioral assessment.   |

## Under development or promising but not routine caregiver purchase

| Technology class                  | Representative examples                                    | Potential future value                                                                                |
|-----------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Disease-directed device therapies | Cognito Spectris AD; NeuroEM<br>MemorEM                    | Potential non-drug home treatments for mild-to-moderate Alzheimer's disease if proven and authorized. |
| Distress and agitation prediction | SmartSocks, wrist physiology + AI, smart textiles          | Earlier caregiver intervention before agitation, pain, fear, or unmet needs escalate.                 |
| Digital biomarkers                | Smartwatch, gait, sleep, circadian, and activity analytics | Earlier detection of decline, fall risk, sleep disruption, delirium, or health change.                |
| Earables / smart hearing devices  | Smart hearing aids, earbuds, or ear-worn sensors           | Combines communication support with passive monitoring in a less stigmatizing form.                   |

## Wearable Selection Logic for Dementia Care

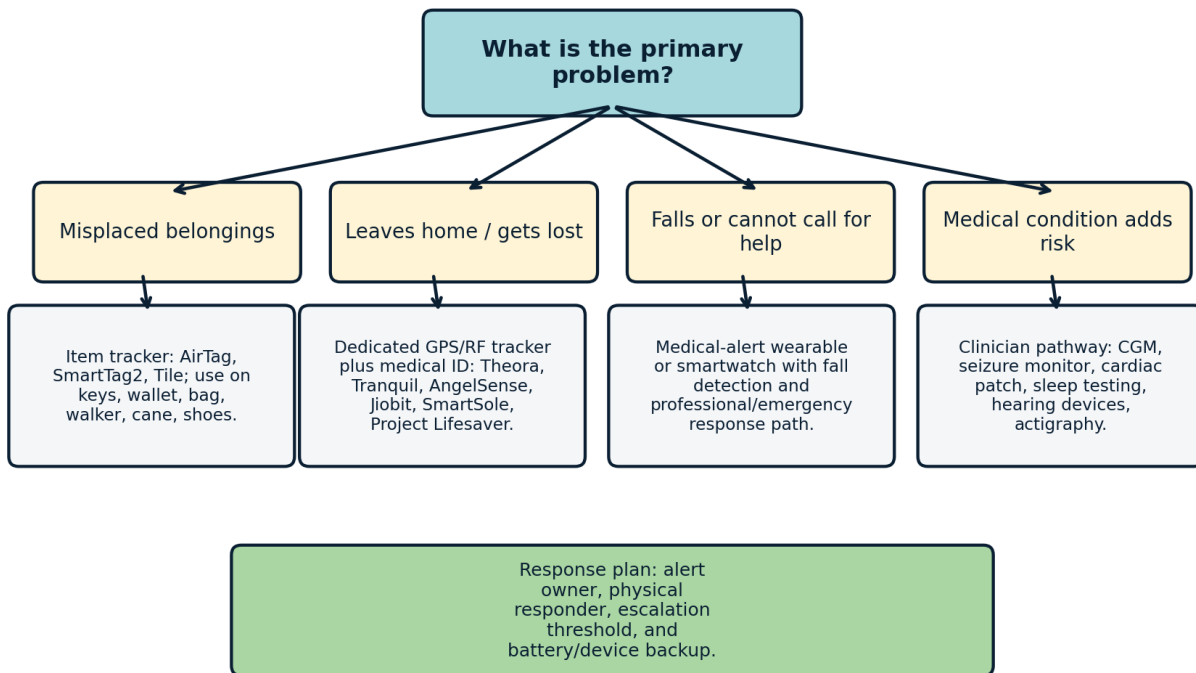


Figure 5. Practical wearable selection logic based on the primary caregiving problem.

## 4. Stage 1: Mild Cognitive Impairment / MCI [return to TOC](#)

*Technology should be light, dignity-preserving, and habit-building.*

### Care goal at MCI

Preserve independence while reducing friction: lost objects, missed appointments, medication routine drift, poor sleep, hearing-related communication problems, and early fall or health-risk signals.

### Direct-purchase devices for MCI

| Device / class                           | Pathway         | Specific use                                                                                        | Benefit                                                                                                 | Limit                                                                                        |
|------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Apple AirTag / Samsung SmartTag2 / Tile  | Direct purchase | Attach to keys, wallet, purse, walker, cane, jacket, shoes, or bag.                                 | Reduces conflict and search time; helps preserve independence without making the person feel monitored. | Not a medical alert or true GPS safety device; should not be used as covert people-tracking. |
| Apple Watch / Pixel Watch / Galaxy Watch | Direct purchase | Reminders, calls, emergency features, fall detection, health trends, and optional location sharing. | Provides a familiar mainstream device for routines, exercise, and light safety support.                 | Requires charging, setup, acceptance, and enough cognitive ability to respond to alerts.     |
| Garmin or fitness-oriented watch         | Direct purchase | Activity, walking, exercise, outdoor incident assistance in supported contexts.                     | Supports an active lifestyle and may reassure caregivers during walks.                                  | Many assistance features depend on a paired phone and supported activities.                  |

## Wearable Electronic Devices for Alzheimer's Disease and Other Forms of Dementia

| Device / class                       | Pathway         | Specific use                                                                            | Benefit                                                                  | Limit                                                                          |
|--------------------------------------|-----------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| WatchMinder or simple reminder watch | Direct purchase | Vibrating text reminders for medications, hydration, appointments, meals, and routines. | Reduces repeated verbal prompting and supports self-management.          | Works best while the person still understands and acts on the cue.             |
| OTC hearing aids                     | Direct purchase | Hearing support for adults with perceived mild-to-moderate hearing loss.                | Improves communication and may reduce confusion caused by missed speech. | Not appropriate for all hearing loss; professional assessment is still useful. |

## Prescription or clinician-pathway devices for MCI

| Device / class                                        | Pathway                                     | Specific use                                                                        | Benefit                                                                                      |
|-------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Prescription hearing aids                             | Audiology / hearing professional            | Treats more complex or more severe hearing loss and improves communication.         | Fewer misunderstandings, less social withdrawal, and easier participation in care decisions. |
| Continuous glucose monitor (Dexcom / FreeStyle Libre) | Clinician diabetes pathway                  | Monitors glucose and may allow caregiver follower alerts.                           | Reduces risk of dangerous highs/lows that can mimic or worsen confusion.                     |
| Zio cardiac patch or similar ECG monitor              | Clinician prescribed                        | Evaluates palpitations, syncope, fainting, and unexplained falls.                   | May identify treatable arrhythmias contributing to safety events.                            |
| WatchPAT or home sleep apnea test                     | Clinician ordered                           | Screens for sleep apnea when snoring, fatigue, or fluctuating cognition is present. | Can lead to treatment that improves energy, sleep, and safety.                               |
| Clinical actigraphy                                   | Sleep clinic / research / clinician pathway | Wrist-worn activity/sleep-wake monitoring.                                          | Creates objective data about insomnia, circadian disruption, or unusual routines.            |

## Promising devices under development for MCI

| Technology                         | Status                               | Use                                                                                          | Potential benefit                                                                            |
|------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Smartwatch digital biomarkers      | Research / development               | Uses sleep, gait, activity, heart-rate, and circadian patterns to detect change.             | May provide early warning of decline, depression, sleep disruption, or health deterioration. |
| Earables and smart hearing devices | Research / emerging product concepts | Combines hearing support with passive sensing, communication help, or caregiver integration. | Potentially lower stigma because the device resembles hearing support rather than tracking.  |
| Gait-sensor analytics              | Research / clinical translation      | Detects subtle gait variability and fall-risk changes.                                       | May support earlier physical therapy, home safety changes, or exercise interventions.        |

## Implementation notes for MCI

- Introduce technology as convenience, not surveillance. The best framing is often: "This makes the day easier."
- Use the person's existing phone ecosystem whenever possible. Apple households often do best with AirTag and Apple Watch; Samsung/Android households may prefer SmartTag2, Pixel Watch, or Galaxy Watch.
- Do not overload the person with alerts. One reminder system used consistently is better than five systems that are ignored.
- Begin medical ID early if the person walks alone, travels, drives, or has occasional disorientation.

## 5. Stage 2: Mild / Early-Stage Dementia [return to TOC](#)

*This is the best stage to add safety layers while the person can still participate in setup and consent.*

### Care goal in mild dementia

Extend safe independence while preventing high-consequence events: getting lost, missed medications, scams, falls, wandering, inability to reach help, and caregiver uncertainty about location.

### Direct-purchase devices for mild dementia

| Device / class                                                          | Pathway                          | Specific use                                                                                                                               | Benefit                                                                                      | Limit                                                                                                                                            |
|-------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Apple Watch with cellular                                               | Direct purchase                  | Calls, emergency SOS, fall detection, medication reminders, location sharing, and health trends.                                           | A mainstream watch can extend independence while giving the caregiver a modest safety layer. | Daily charging and app complexity are the main barriers.                                                                                         |
| BoundaryCare + Apple Watch                                              | Direct purchase subscription/app | Dementia-oriented location, geofence, fall, reminder, and health-alert workflow using Apple Watch.                                         | Helps convert a consumer watch into a caregiver dashboard for early dementia safety.         | Requires Apple ecosystem and careful setup.                                                                                                      |
| Theora Connect / Theora Care                                            | Direct purchase / service        | GPS dementia watch with geofencing, SOS, auto-answer voice, 18–24-hour battery, and optional fall detection.                               | Lower upfront-cost watch alternative when a daily charging routine is dependable.            | Daily charging; calls caregivers rather than 911; monitoring center is not included.                                                             |
| Tranquil GPS Watch                                                      | Direct purchase / service        | Preferred starting GPS watch: safe zones, home beacon, locking strap, SOS, two-way/auto-answer voice, and up to seven-day claimed battery. | Best fit when watch wear is accepted and battery reliability is the decisive concern.        | Verify AT&T coverage; indoor location is coarse; five-minute home-exit timer; no professional monitoring or advertised automatic fall detection. |
| Jiobit                                                                  | Direct purchase / service        | Small wearable location tracker with trusted places and geofencing.                                                                        | Lower-profile location layer if a watch is rejected.                                         | Not a full medical-alert workflow.                                                                                                               |
| AngelSense                                                              | Direct purchase / service        | Continuous GPS4 tracking with proactive alerts, secure wearing, route history, auto-pickup voice, alarm, and responder sharing.            | Strong second choice if a watch may be removed or continuous tracking matters most.          | GPS4 up to 24 hours; water-resistant rather than fully waterproof; fall detection remains beta/optional.                                         |
| GPS SmartSole / MetAlert                                                | Direct purchase / service        | Hidden shoe-insole GPS with geozone alerts, 24–96-hour advertised runtime, and remote map access.                                          | Strong third choice when watches, tags, or pendants are removed.                             | Protection exists only in the tracked shoes; test carrier performance and fit before trimming.                                                   |
| MedicAlert Safe & Found / dementia medical ID                           | Direct purchase / enrollment     | Medical ID bracelet or profile with emergency contact and safe-return support.                                                             | Backstop if electronics fail or the person cannot explain identity/diagnosis.                | Profile must be kept current.                                                                                                                    |
| Kanega Watch / Bay Alarm SOS / Medical Guardian MGMove / Lively Mobile2 | Direct purchase / subscription   | Medical-alert watches or pendants with SOS, monitoring center, GPS, and optional fall detection.                                           | Useful when falls or emergency response matter as much as location.                          | Automatic fall detection is helpful but not perfect; wearing consistency is critical.                                                            |

## Prescription or clinician-pathway devices for mild dementia

| Device / class                       | Pathway                              | Specific use                                                                    | Benefit                                                                              |
|--------------------------------------|--------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Prescription hearing aids            | Audiology / clinician pathway        | Treats hearing loss that worsens communication and can make redirection harder. | Fewer misunderstandings and less caregiver strain.                                   |
| CGM with caregiver sharing           | Clinician diabetes pathway           | Caregiver receives or views glucose alerts when diabetes creates safety risk.   | Safer independence and fewer episodes of unrecognized hypo/hyperglycemia.            |
| Zio cardiac patch                    | Clinician prescribed                 | Evaluates falls, fainting, palpitations, or suspected atrial fibrillation.      | Finds potentially treatable contributors to confusion or falls.                      |
| WatchPAT / sleep diagnostic wearable | Clinician ordered                    | Evaluates sleep apnea or sleep-related oxygen/cardiac stress.                   | Better sleep diagnosis can reduce fatigue, irritability, and cognitive fluctuation.  |
| Clinical actigraphy                  | Clinician / sleep / research pathway | Tracks sleep-wake cycles and activity routines.                                 | Useful when caregiver reports nighttime wandering, insomnia, or sundowning patterns. |

## Promising devices under development for mild dementia

| Technology                                  | Status                                         | Use                                                                                          | Potential benefit                                                                |
|---------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Cognito Spectris AD                         | Investigational / FDA Breakthrough designation | Non-invasive visual and auditory gamma stimulation for mild-to-moderate Alzheimer's disease. | Potential future home therapy if pivotal evidence and authorization support use. |
| NeuroEM MemorEM                             | Investigational / FDA Breakthrough designation | Head-worn transcranial electromagnetic treatment concept.                                    | Potential future non-drug home therapy if larger trials confirm benefit.         |
| Agitation and behavior-prediction wearables | Research / pilot development                   | Uses wrist physiology, activity, and AI to detect early warning signs of agitation.          | Could help caregivers intervene before escalation.                               |

## Implementation notes for mild dementia

- Introduce geofencing and immediate exit detection before a crisis if the person has begun getting turned around, confusing routes, or walking/driving to old destinations.
- Use medical ID even with GPS. In Hawai'i, add the Silver Alert NFC wristband when eligible; it identifies and reports but does not locate the wearer.
- Fall detection is not enough by itself. Pair it with a human response pathway and regular charging checks.
- Make setup part of the routine: charging station, low-battery alerts, weekly test call, current contacts, and a full walking test through the residence, elevators/garage, neighborhood, and usual routes.

## 6. Stage 3: Moderate / Middle-Stage Dementia [return to TOC](#)

*Technology should no longer depend primarily on the person using the device correctly.*

### Care goal in moderate dementia

Detect exit, locate quickly, communicate simply, respond to falls, and reduce caregiver panic. The strongest devices at this stage are caregiver-managed, passive, and backed by rescue or emergency workflows.

## Direct-purchase or enrollment devices for moderate dementia

| Device / class                                           | Pathway                                 | Specific use                                                                                                                                                                      | Benefit                                                                                                                                        |
|----------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Tranquil GPS Watch / Theora Connect                      | Direct purchase / service               | Dementia GPS watches with safe zones, auto-answer calling, caregiver alerts, and locking options; Tranquil emphasizes longer battery while Theora offers optional fall detection. | High value when phone use fails; choose by carrier coverage and whether seven-day claimed battery or daily-charge fall detection matters more. |
| AngelSense GPS4                                          | Direct purchase / service               | Continuous live GPS, secure attachment, route history, proactive alerts, auto-pickup voice, alarm, and first-responder sharing.                                                   | Strong choice when visible watches are removed, with daily charging and privacy safeguards.                                                    |
| Jiobit                                                   | Direct purchase / service               | Small wearable location tracker for trusted places and geofencing.                                                                                                                | Useful if the person rejects visible medical devices.                                                                                          |
| GPS SmartSole / MetAlert                                 | Direct purchase / service               | Hidden shoe-insole GPS with geozones and remote mapping.                                                                                                                          | Best when watch/pendant removal is likely but tracked shoes are worn consistently.                                                             |
| Project Lifesaver                                        | Enrollment through participating agency | Radio-frequency rescue bracelet supported by trained public-safety teams.                                                                                                         | Adds search-and-rescue infrastructure beyond consumer GPS.                                                                                     |
| MedicAlert / Hawai'i Silver Alert NFC / non-removable ID | Direct purchase / enrollment            | Medical/emergency profile and rapid contact path when the person cannot communicate or electronics fail.                                                                          | Essential identification backstop; the Hawai'i NFC wristband is not a location tracker.                                                        |
| Kanega, Bay Alarm SOS, MGMove, Lively Mobile2            | Direct purchase / subscription          | Medical alert, SOS, two-way voice, GPS, and optional fall detection.                                                                                                              | Supports caregiver response and professional monitoring when falls are likely.                                                                 |
| CarePredict Tempo or facility wearable systems           | Senior-living / enterprise purchase     | Activity, indoor location, fall detection, behavior change, and staff alerts.                                                                                                     | Especially useful in assisted living, memory care, or nursing settings.                                                                        |

## Prescription or clinician-pathway devices for moderate dementia

| Device / class                   | Pathway                                      | Specific use                                                                    | Benefit                                                                                    |
|----------------------------------|----------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| CGM with caregiver sharing       | Clinician diabetes pathway                   | Monitors glucose when the person cannot self-manage diabetes reliably.          | Helps caregiver detect dangerous glucose events that may appear as confusion or agitation. |
| Empatica EpiMonitor              | Prescription-only seizure monitoring adjunct | Seizure monitoring and caregiver alerts when seizures are present or suspected. | Faster response and better documentation for clinicians.                                   |
| Zio cardiac patch                | Clinician prescribed                         | Assesses unexplained falls, fainting, palpitations, or arrhythmia risk.         | Identifies treatable cardiac causes of sudden collapse or confusion.                       |
| Sleep apnea testing / actigraphy | Clinician pathway                            | Measures sleep-disordered breathing or sleep-wake patterns.                     | Clarifies nighttime agitation, insomnia, and daytime fatigue.                              |
| Prescription hearing aids        | Audiology / clinician pathway                | Supports communication, reassurance, and redirection.                           | Reduces agitation caused by mishearing, isolation, or misunderstood instructions.          |

## Promising devices under development for moderate dementia

| Technology                  | Status                                 | Use                                                                          | Potential benefit                                                              |
|-----------------------------|----------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Milbotix SmartSocks Comfort | In development / research availability | Sensor socks intended to detect distress, agitation, or physiologic changes. | Comfortable textile form may work better than wrist devices in later dementia. |

| Technology                                   | Status                               | Use                                                                                       | Potential benefit                                                                                            |
|----------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Wearable agitation-prediction systems        | Pilot studies / research             | Wrist sensors and AI models that may predict agitation several minutes before escalation. | Gives caregiver time for toileting, pain relief, hydration, quiet, reassurance, or environmental adjustment. |
| Smart textile and passive behavior analytics | Research / translational development | Uses non-stigmatizing wearables or textile sensors to detect routine changes.             | May reduce reliance on direct verbal reporting or intrusive observation.                                     |

## Implementation notes for moderate dementia

- Prefer passive alerts over systems that require the person to press a button or answer a phone.
- Consider auto-answer communication if the person cannot reliably answer calls, but discuss privacy and dignity with family and clinicians.
- If watches or pendants are removed, try AngelSense GPS4 with secure wearing, GPS SmartSole, non-removable/NFC ID, clothing ID, or public-safety enrollment such as Project Lifesaver.
- Pair GPS with an immediate exit alarm and a written response plan. Start searching at once; if the person is not found within 15 minutes, call 911 and state that the person has dementia.

## 7. Stage 4: Late / Severe-Stage Dementia [return to TOC](#)

*Comfort, identification, staff workflow, and low-burden safety matter more than feature count.*

### Care goal in late-stage dementia

Protect comfort and dignity while maintaining identification, fall response, distress detection, and safe-return support if the person remains physically mobile.

## Direct-purchase or enrollment devices for late-stage dementia

| Device / class                                                         | Pathway                                | Specific use                                                                                                    | Benefit                                                                                          |
|------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| MedicAlert / Hawai'i Silver Alert NFC / non-removable medical or QR ID | Direct purchase / enrollment           | Identification and emergency contacts when the person cannot communicate; finder-assisted reporting in Hawai'i. | Low-burden, high-value backup for EMS, police, facilities, and the public; NFC is not a locator. |
| Project Lifesaver                                                      | Participating public-safety enrollment | RF bracelet used by trained rescue teams if a mobile person elopes.                                             | Especially useful if local response agencies participate.                                        |
| CarePredict Tempo or facility staff-alert wearables                    | Senior-living / facility purchase      | Indoor location, activity monitoring, fall detection, and staff workflow alerts.                                | Better fit than consumer smartwatches in memory care settings.                                   |
| GPS SmartSole                                                          | Direct purchase / service              | Shoe-based GPS when elopement risk remains and the person still walks.                                          | Discreet and less cognitively demanding than a phone or watch.                                   |
| Simple medical-alert pendant/watch                                     | Direct purchase / subscription         | Emergency help and fall detection if tolerated.                                                                 | Only useful if it is comfortable, worn consistently, and does not increase agitation.            |

## Prescription or clinician-pathway devices for late-stage dementia

| Device / class                             | Pathway                                          | Specific use                                                                 | Benefit                                                            |
|--------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------|
| EpiMonitor / seizure-monitoring wearable   | Prescription-only adjunct                        | Supports seizure alerts and seizure documentation when clinically relevant.  | Faster response and better clinician information.                  |
| CGM with caregiver sharing                 | Clinician diabetes pathway                       | Monitors glucose when appetite, insulin, or medication routines create risk. | Reduces danger from unreported hypoglycemia or hyperglycemia.      |
| Clinical actigraphy                        | Clinician / sleep / research pathway             | Tracks sleep-wake rhythm, nighttime movement, and activity patterns.         | May clarify distress, nighttime behavior, or circadian disruption. |
| Hearing aids / assistive listening devices | Audiology / clinician pathway                    | Communication support when tolerated and appropriate.                        | May improve comfort, reassurance, and connection.                  |
| Cardiac patch / sleep testing              | Clinician ordered when results would change care | Evaluates specific fall, syncope, or sleep concerns.                         | Use selectively to match goals of care.                            |

## Promising devices under development for late-stage dementia

| Technology                      | Status                               | Use                                                                                                                     | Potential benefit                                                             |
|---------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| SmartSocks and smart textiles   | Development / research               | Comfortable fabric sensors for distress, agitation, movement, and physiologic patterns.                                 | May be useful when wrist devices are rejected or cause skin/comfort problems. |
| Multimodal agitation prediction | Research / pilot evidence            | Combines wearable physiology, activity, and privacy-preserving environmental sensing.                                   | Potential earlier intervention before distress becomes crisis.                |
| Passive routine analytics       | Research / translational development | Detects sudden changes in sleep, activity, mobility, or routine that may suggest pain, infection, delirium, or decline. | Could reduce reliance on the person self-reporting symptoms.                  |

## Implementation notes for late-stage dementia

- Remove or replace a wearable if it causes agitation, skin breakdown, pressure injury, fear, or repeated conflict.
- Simplify. The best late-stage device is often the one that is comfortable, visible, hard to lose, and easy for caregivers or staff to maintain.
- Use clinician-directed devices only when the result will change care. At this stage, goals of care should guide monitoring intensity.
- In memory-care facilities, staff workflow integration may matter more than consumer features. A device that alerts the right staff at the right time is more valuable than a complicated standalone app.

## 8. Caregiver Decision Rules and Safety Planning [return to TOC](#)

*The device is only one part of the safety system.*

### Match the device to the failure mode

| Observed problem                                                | Best device category | Recommended examples                                      |
|-----------------------------------------------------------------|----------------------|-----------------------------------------------------------|
| Misplaced keys, wallet, purse, cane, walker, glasses, or remote | Item tracker         | AirTag (2nd generation), SmartTag2, Tile—belongings only. |

| Observed problem                                            | Best device category                                     | Recommended examples                                                                                                                                                                 |
|-------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Person leaves home and becomes lost or confused             | Dedicated GPS/RF tracker plus medical ID                 | Tranquil first when watch/AT&T fit; AngelSense GPS4 for secure continuous wear; GPS SmartSole for tracked shoes; Theora/Jiobit alternatives; add medical/NFC ID and rescue planning. |
| Person may leave a home or high-rise unnoticed              | Immediate door alarm + dedicated GPS + identification    | Door contact/chime; Tranquil, AngelSense GPS4, GPS SmartSole, or Theora; Hawai'i Silver Alert NFC/MedicAlert; current response packet.                                               |
| Person cannot explain identity or emergency contacts        | Medical ID / safe-return wearable                        | MedicAlert, Hawai'i Silver Alert NFC wristband, QR ID, non-removable ID, shoe/clothing ID.                                                                                           |
| Falls, syncope, or inability to call for help               | Medical-alert wearable or smartwatch with fall detection | Kanega, Bay Alarm SOS, MGMove, Lively Mobile2, Apple Watch, Pixel Watch, Galaxy Watch.                                                                                               |
| Medication forgetfulness                                    | Reminder wearable plus caregiver verification            | Apple Watch Medications, WatchMinder, Kanega/MiniFinder reminders; pair with dispenser/blister packs as dementia progresses.                                                         |
| Diabetes, seizures, arrhythmia, or sleep disorder adds risk | Clinician-prescribed monitoring                          | CGM, EpiMonitor, Zio, WatchPAT, actigraphy, hearing aids.                                                                                                                            |
| Agitation, distress, or inability to report pain            | Behavior/distress sensing or facility workflow wearable  | CarePredict today in facility settings; SmartSocks and agitation-prediction systems are promising.                                                                                   |

## A good response plan answers these questions

1. Who receives the alert first?
2. Who is physically close enough to respond?
3. If the person is not located within 15 minutes, who calls 911 and clearly states that the person has dementia?
4. What recent photo and clothing description can be shared?
5. Which familiar locations should be checked first?
6. Does the person carry or wear current medical ID and, in Hawai'i, an approved Silver Alert NFC wristband if eligible?
7. Is the local police department, sheriff, or public-safety agency aware of the diagnosis?
8. Is Project Lifesaver, Hawai'i Silver Alert, or a similar local rescue program available—and who understands how it is activated?
9. Who checks the immediate door alarm, battery, charging, clasp/insole integrity, carrier signal, and every caregiver notification path?
10. What is the backup plan if the tracker is removed, indoors without precise GPS, dead, out of coverage, or left in the wrong shoes?

## Ethical and privacy guardrails

| Principle                     | Practical application                                                                                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------------|
| Consent                       | Discuss tracking, data sharing, and device choice while the person can still participate.                     |
| Least restrictive alternative | Use item trackers and voluntary location sharing before stronger monitoring if risk is low.                   |
| Proportionality               | Use stronger GPS, locking clasps, or auto-answer only when real safety risks justify them.                    |
| Transparency                  | Avoid covert tracking unless there is a serious safety justification and appropriate clinical/legal guidance. |
| Dignity                       | Choose comfortable, normal-looking devices and avoid labels or products that feel punitive.                   |
| Data minimization             | Share location and health data only with people who need it for care or safety.                               |
| Backup                        | Use medical ID and human response plans because electronics fail.                                             |

## Device evaluation checklist

| Question                                       | Why it matters                                                                        |
|------------------------------------------------|---------------------------------------------------------------------------------------|
| Will the person actually wear it?              | Comfort and acceptance are more important than feature count.                         |
| How often must it be charged?                  | Charging burden is one of the most common failure points.                             |
| Who receives alerts?                           | Alerts must go to someone able to act quickly.                                        |
| Does it work indoors and outdoors?             | GPS may be less accurate indoors; Wi-Fi/Bluetooth/cellular coverage varies.           |
| Can the caregiver locate the person quickly?   | Live location, route history, and shareable location links can matter in emergencies. |
| Can the caregiver communicate with the person? | Auto-answer or two-way voice can be critical when phone use fails.                    |
| Is there medical-alert monitoring?             | Professional monitoring can reduce caregiver-only response burden.                    |
| Is there a backup ID?                          | Medical ID remains useful when batteries die or devices are removed.                  |
| What are subscription and replacement costs?   | Long-term affordability determines whether the safety plan is sustainable.            |
| What data is collected and who can see it?     | Privacy and dignity should be designed into the care plan.                            |

## 9. Implementation Roadmap [return to TOC](#)

*A staged rollout reduces resistance and improves reliability.*

| Timeframe          | Caregiver action                                                                                                                                                                          | Why it matters                                                                                                          |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Week 1             | Choose the primary risk: lost objects, wandering, falls, medication, medical condition, or facility workflow.                                                                             | Prevents buying an impressive device that solves the wrong problem.                                                     |
| Week 1             | Add low-friction backups: medical/NFC ID, immediate exit alarm if indicated, updated emergency contacts, recent photos, medication list, likely destinations, and a local emergency plan. | These work even when electronics fail.                                                                                  |
| Weeks 1–2          | Select one primary tracker and confirm wearing tolerance, charging, caregiver app access, carrier signal, alert delivery, indoor/outdoor location, and comfort.                           | Most failures appear during ordinary routines.                                                                          |
| Weeks 1–2          | Run a full-route test through the home, hallway, elevator/stairs, lobby, garage, street, transit stop, and usual walking destinations; test all caregiver phones.                         | A product page cannot predict local tower coverage, concrete interference, geofence delay, or the actual response path. |
| Weeks 2–4          | Run a practice drill: simulated geofence alert, test call, SOS test if allowed, low-battery check, and response escalation.                                                               | Builds confidence before a real event.                                                                                  |
| Weeks 2–4          | In Hawai'i, register an eligible person for the Silver Alert NFC wristband and confirm that the public profile, photo, medical facts, and contacts are current.                           | Identification and finder reporting continue to work when a charged GPS tracker is absent or imprecise.                 |
| Monthly            | Review whether the stage has changed: new wandering, falls, agitation, missed meds, or inability to use phone.                                                                            | Device strategy must progress with the disease.                                                                         |
| After any incident | Revise the response plan, not only the device. Identify what failed: alert delay, battery, caregiver availability, location accuracy, or wearing consistency.                             | Safety systems improve through after-action review.                                                                     |

**Procurement priority order**

1) Immediate exit alarm, current medical/NFC ID, and written response plan. 2) AirTag (2nd generation) or equivalent only for belongings. 3) If wandering risk exists, choose Tranquil first when watch/AT&T fit; AngelSense GPS4 for secure continuous wear; GPS SmartSole for tracked shoes; Theora as a daily-charge alternative. 4) Add fall-response/monitoring when falls or alone time create risk. 5) Use clinician devices for diabetes, seizures, arrhythmia, sleep, or hearing needs. 6) Re-test monthly and after every incident.

## 10. Appendix A: Device Reference Tables [return to TOC](#)

*Condensed maps for quick comparison.*

### Direct-purchase device map

| Device family                          | MCI      | Mild     | Moderate  | Late           | Best use                                                                                                                                  |
|----------------------------------------|----------|----------|-----------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| AirTag (2nd gen) / SmartTag2 / Tile    | High     | High     | Backup    | Low            | Misplaced belongings only; not a primary person-tracking or emergency system.                                                             |
| Apple Watch / Pixel / Galaxy / Garmin  | High     | High     | Selective | Low            | Mainstream reminders, calls, emergency support, health and activity trends.                                                               |
| Tranquil / Theora Connect              | Low      | High     | High      | Selective      | Dementia GPS watches: Tranquil for longer claimed battery; Theora for lower upfront cost and optional fall detection with daily charging. |
| AngelSense GPS4 / Jiobit               | Low      | High     | High      | Selective      | Secure/low-profile GPS; AngelSense for continuous tracking, auto-pickup voice, and responder sharing.                                     |
| GPS SmartSole                          | Low      | Moderate | High      | Selective      | Shoe-based tracking when watches/pendants are removed.                                                                                    |
| Project Lifesaver                      | Low      | Moderate | High      | High if mobile | Public-safety RF rescue program.                                                                                                          |
| MedicAlert / Hawai'i Silver Alert NFC  | Moderate | High     | Very high | Very high      | Identification and safe-return/reporting backup; NFC is not a GPS locator.                                                                |
| Kanega / Bay Alarm / MGMTMove / Lively | Low      | High     | High      | Selective      | Medical alert, SOS, fall response, monitoring center.                                                                                     |
| CarePredict / facility platforms       | Low      | Low      | High      | High           | Staff workflow, indoor location, activity, falls, routine changes.                                                                        |

### Prescription and clinician-pathway map

| Device family             | Trigger for use                                                              | Caregiver value                                        | Person value                                        |
|---------------------------|------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------|
| Prescription hearing aids | Hearing loss, miscommunication, withdrawal, difficulty redirection.          | Easier conversation and less frustration.              | Improved connection and reduced isolation.          |
| CGM                       | Diabetes, hypoglycemia risk, insulin/sulfonylurea use, poor self-management. | Remote glucose visibility and alerts.                  | Safer glucose control and fewer dangerous episodes. |
| Zio / ECG patch           | Fainting, palpitations, suspected arrhythmia, unexplained falls.             | Clarifies whether falls/confusion are cardiac-related. | Potentially treatable cause found.                  |
| WatchPAT / sleep test     | Snoring, daytime sleepiness, nocturnal disruption, cognitive fluctuation.    | Explains sleep-related behavior and fatigue.           | Treatment may improve sleep and daytime function.   |
| EpiMonitor                | Seizures or seizure-like events.                                             | Alerts and better event records.                       | Faster response during seizure events.              |

| Device family | Trigger for use                                                  | Caregiver value         | Person value                                          |
|---------------|------------------------------------------------------------------|-------------------------|-------------------------------------------------------|
| Actigraphy    | Sleep-wake disturbance, sundowning patterns, nighttime activity. | Objective pattern data. | Less burdensome than repeated subjective observation. |

## Emerging technology map

| Technology                                     | Likely stage fit     | Why promising                                                                       | Current caution                                                        |
|------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Spectris AD / gamma stimulation                | Mild to moderate AD  | Non-invasive home therapy concept targeting disease biology or functional outcomes. | Investigational; breakthrough designation is not the same as approval. |
| MemorEM transcranial electromagnetic treatment | Mild to moderate AD  | Head-worn non-drug therapy concept.                                                 | Needs larger confirmatory evidence and regulatory authorization.       |
| SmartSocks / smart textiles                    | Moderate to late     | Comfortable form factor for distress and physiologic sensing.                       | Not routine consumer dementia-care purchase yet.                       |
| Agitation-prediction wearables                 | Moderate to late     | May predict behavior escalation before crisis.                                      | Early pilots; needs broader validation and practical integration.      |
| Digital biomarkers                             | MCI through moderate | Passive detection of sleep, activity, gait, and routine changes.                    | Not standalone diagnostic or treatment tools today.                    |
| Earables                                       | MCI through moderate | Combines hearing support and passive monitoring in a familiar form.                 | Dementia-specific usability remains underdeveloped.                    |

## 11. Appendix B: References and Source Notes [return to TOC](#)

*Representative sources used to frame product features, regulatory pathways, and dementia-care considerations.*

### Source note

Product availability, pricing, subscriptions, battery claims, carrier support, and launch status were rechecked through August 11, 2026. Prices shown are point-in-time snapshots, not guarantees. The report emphasizes official product, statutory, regulator, advocacy, and peer-reviewed sources; independent comparative testing is used only where clearly identified.

[1] **Alzheimer's Association.** Stages of Alzheimer's and dementia; wandering and safety resources.

<https://www.alz.org/alzheimers-dementia/stages>

[2] **Alzheimer's Association.** Wandering and getting lost: 6 in 10 people living with dementia wander at least once.

<https://www.alz.org/help-support/caregiving/stages-behaviors/wandering>

[3] **Apple Support.** AirTag, Find My, Apple Watch fall detection, Emergency SOS, and Medications support materials.

<https://support.apple.com/>

[4] **Samsung Newsroom / Samsung Support.** Galaxy SmartTag2 and Galaxy Watch safety-feature support materials.

<https://www.samsung.com/us/support/>

[5] **Google Pixel Watch Help.** Fall detection and emergency help support documentation.

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[7] **BoundaryCare.** Caregiver app for Apple Watch and dementia-oriented monitoring description.

<https://www.boundarycare.com/>

[8] **Theora Care.** Theora Connect GPS dementia watch description. <https://theoracare.com/>

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- [10] **AngelSense.** GPS tracker features for elderly and dementia safety. <https://www.angelsense.com/>
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- [20] **FDA.** OTC hearing aids and hearing aid regulatory framework. <https://www.fda.gov/medical-devices/hearing-aids/otc-hearing-aids-what-you-should-know>
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- [22] **Abbott FreeStyle Libre.** LibreLinkUp caregiver/loved-one sharing. <https://www.freestyle.abbott/>
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- [24] **Itamar Medical / ZOLL.** WatchPAT home sleep apnea testing information. <https://www.itamar-medical.com/patients/watchpat-home-sleep-testing/>
- [25] **FDA 510(k) summary / Empatica.** EpiMonitor / EmbracePlus prescription seizure-monitoring adjunct information. <https://www.accessdata.fda.gov/>
- [26] **Cognito Therapeutics.** Spectris AD gamma-stimulation device program information. <https://www.cognitotx.com/>
- [27] **NeuroEM Therapeutics.** MemorEM transcranial electromagnetic treatment information. <https://www.neuroem.com/>
- [28] **Milbotix.** SmartSocks Comfort dementia-care wearable development information. <https://milbotix.com/>
- [29] **JMIR Aging.** Pilot research on multimodal agitation/aggression prediction in dementia. <https://aging.jmir.org/>
- [30] **Peer-reviewed reviews.** Wearables, digital biomarkers, gait, sleep, and dementia monitoring literature. <https://pmc.ncbi.nlm.nih.gov/>
- [31] **Tranquil.** GPS Watch product features and August 11, 2026 purchase/service pricing. <https://feeltranquil.com/tranquil-watch-lp/>
- [32] **Tranquil Support.** Carrier, indoor-GPS, battery-use, emergency tracking, and five-minute home-exit timer documentation. <https://feeltranquil.com/faq/>
- [33] **AngelSense.** Help Center pricing, secure wearing, feature set, and service overview. <https://www.angelsense.com/help/>
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- [39] **Hawai'i State Legislature.** SB 2305 CD1 / Act 158 establishing the statewide Silver Alert program. [https://data.capitol.hawaii.gov/sessions/session2024/bills/SB2305\\_CD1\\_.HTM](https://data.capitol.hawaii.gov/sessions/session2024/bills/SB2305_CD1_.HTM)
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[44] **Theora Care.** Theora Connect device, service, optional fall detection, battery, network, and August 2026 pricing.

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[45] **SafeWise.** Independent 2026 GPS trackers for dementia comparison and Tranquil field review. <https://www.safewise.com/senior-safety/gps-trackers-dementia/>

## 12. Product-Name Catalog and AI Wearables Addendum [return](#)

[to TOC](#)

This catalog was rechecked through August 11, 2026. Material changes since the prior edition include AirTag (2nd generation); Ray-Ban Meta (Gen 2) and Meta Ray-Ban Display availability; Google intelligent audio glasses announced for fall 2026; Snap SPECS preorder pricing; current Bee and PLAUD offerings; and discontinuation of new Limitless Pendant sales after Meta's acquisition. Product inclusion is not an endorsement; selection still depends on stage, wearer acceptance, caregiver workflow, privacy, local connectivity, and clinical need.

### Current product-selection correction

For a person who may become lost, evaluate Tranquil first when watch wear and AT&T coverage fit; AngelSense GPS4 when secure continuous wear matters; GPS SmartSole when visible devices are removed; and Theora when daily charging and optional fall detection are acceptable. AirTag (2nd generation) remains an item tracker and backup only. AI glasses and memory wearables support independence in MCI/mild dementia but do not replace a wandering-response system.

### Expanded Product-Name Inventory Added to the Report

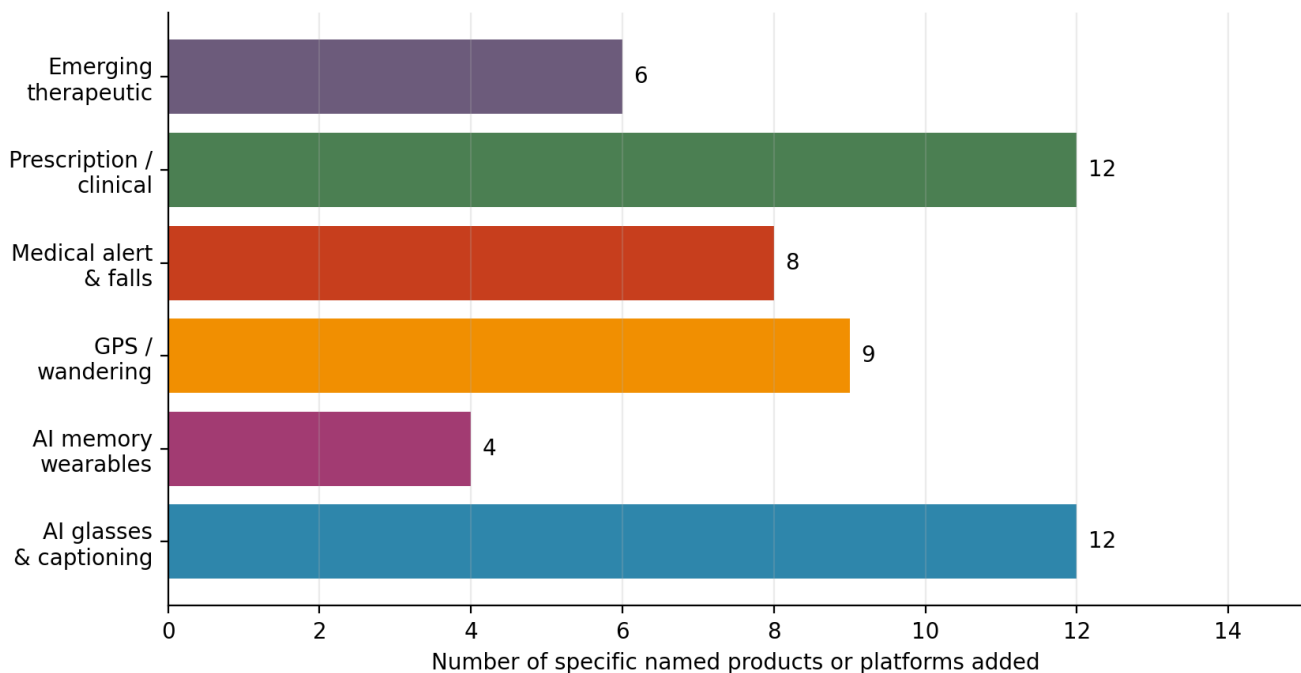
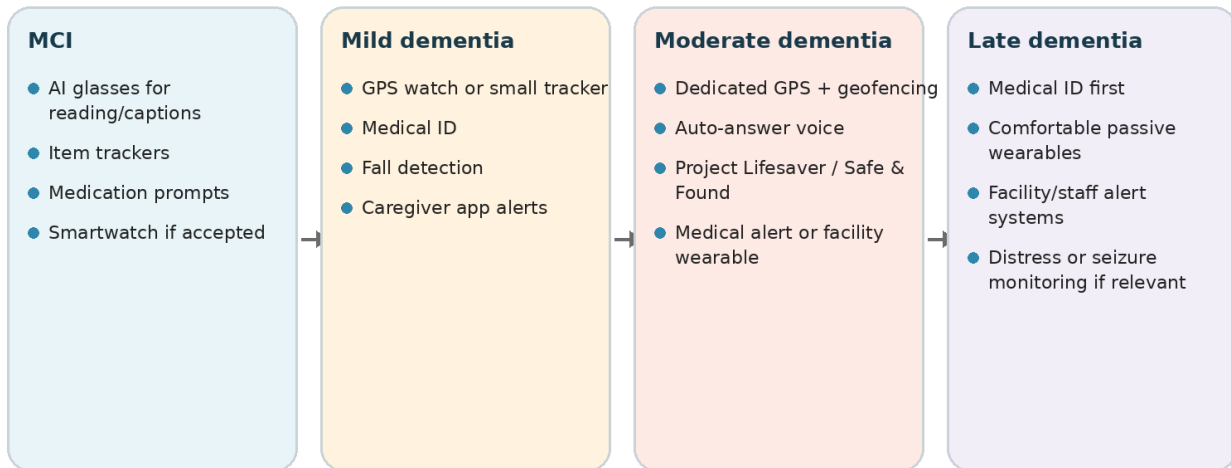


Figure 12-1. Product-name inventory added in this expanded version.

## Stage-Based Wearable Stack: Cueing to Passive Safety

Use normal-looking tools early; shift to caregiver-managed location, identification, and response as dementia progresses.



Design principle: dementia progression reduces reliable self-use.

As disease advances, passive, caregiver-managed safeguards become more important.

Figure 12-2. Stage-based wearable stack: cueing and independence early; passive safety and identification later.

### 12.1 AI glasses and smart eyewear products by name

AI glasses can be useful in dementia care, but mostly in MCI and early/mild dementia. The strongest use cases are: reading labels and signs aloud, live captions for hearing difficulty, hands-free calls with a caregiver, reminders, translation, object/person identification, and caregiver-assisted point-of-view troubleshooting. They should not be treated as wandering trackers, fall-response systems, or medical devices unless the manufacturer specifically offers those functions.

#### Best practical use of AI glasses

Use AI glasses as an independence and communication aid in MCI or mild dementia. Do not rely on them as the primary safety layer for wandering, falls, medication administration, or late-stage supervision.

## AI Glasses: Dementia-Care Fit by Stage

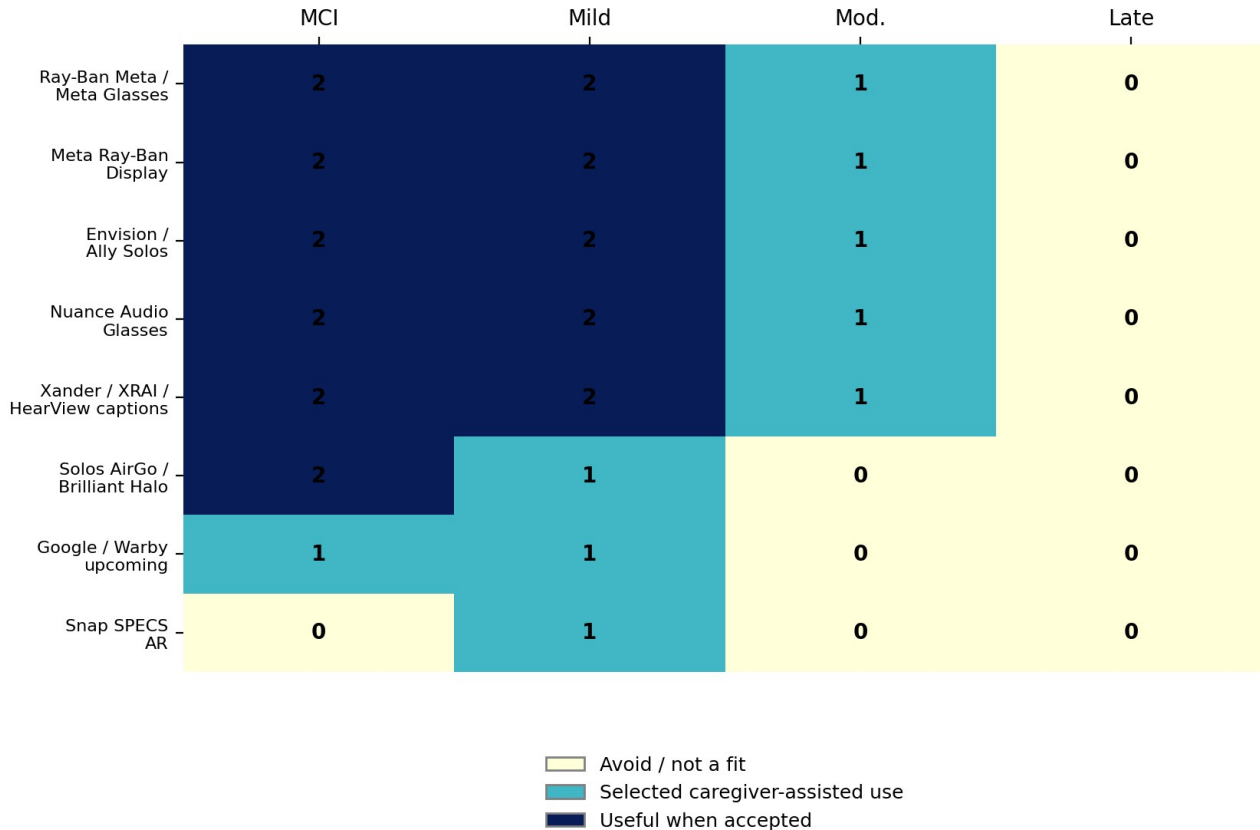


Figure 12-3. AI glasses fit matrix. 0 = avoid/not a fit; 1 = selected caregiver-assisted use; 2 = useful when accepted.

| Product name                                            | Availability                                                                      | Best stage fit                                                     | Specific dementia-care use                                                                                                                                                          | Caregiver/person benefit and caution                                                                                                                      |
|---------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ray-Ban Meta (Gen 2) / Meta AI Glasses [P01–P04]</b> | Direct purchase; Gen 2 current; Rx lenses available on many frames                | MCI, mild; selected caregiver-assisted moderate use                | Voice AI, hands-free calls/messages, 3K video, live translation, look-and-ask visual queries, and point-of-view sharing; up to eight hours typical battery is advertised for Gen 2. | Useful cueing and communication aid for a tech-comfortable person; not GPS wandering, fall response, medical alert, or dementia-specific care.            |
| <b>Meta Ray-Ban Display with Neural Band [P03]</b>      | Available in selected U.S. retail channels; starts at \$799 including Neural Band | MCI, mild; selected use only beyond that                           | In-lens messages, captions/translation, prompts, navigation, and AI interaction controlled by the EMG wristband; up to six hours mixed use.                                         | Potentially useful for captions or short prompts in MCI/mild dementia, but price, fitting, display load, and gesture learning limit routine dementia use. |
| <b>Oakley Meta HSTN [P05]</b>                           | Direct purchase                                                                   | MCI, mild; active walkers/exercisers                               | Performance-styled AI glasses with camera, open-ear audio, Meta AI, and hands-free capture.                                                                                         | Useful for active early-stage users; does not replace fall detection, SOS, or geofencing.                                                                 |
| <b>Envision Glasses / Ally on smart glasses [P06]</b>   | Direct purchase assistive-tech pathway                                            | MCI/mild with low vision; selected moderate with caregiver support | Reads printed/handwritten text aloud, recognizes faces/objects/colors/light, and provides audio feedback.                                                                           | Helpful when visual impairment worsens confusion or dependence; designed for blind/low-vision users, not dementia diagnosis.                              |
| <b>Nuance Audio Hearing Glasses [P10]</b>               | Direct purchase OTC hearing-glasses pathway in supported markets                  | MCI, mild; selected moderate if tolerated                          | Eyeglass frames with integrated hearing support for perceived mild-to-moderate hearing loss.                                                                                        | Can reduce communication failures that trigger confusion or agitation; not an AI memory or location device.                                               |
| <b>XanderGlasses [P09]</b>                              | Direct purchase/assistive hearing pathway                                         | MCI, mild; selected moderate with hearing loss                     | Real-time captioning displayed in the wearer's field of view.                                                                                                                       | Strong for medical visits, meals, and family conversations; captions may increase cognitive load later.                                                   |
| <b>XRAI Glass app + compatible smart glasses [P12]</b>  | App/direct purchase depending on compatible glasses                               | MCI, mild; hearing/language support                                | Real-time subtitles, translation, speaker ID, and AI summaries on phone or smart glasses.                                                                                           | Useful for communication support; requires setup, app literacy, and consent from conversation participants.                                               |
| <b>HearView MYVU Air Subtitle Glasses [P11]</b>         | Direct purchase                                                                   | MCI, mild; hearing/language support                                | Subtitle/caption glasses with translation and AI assistance in a lightweight frame.                                                                                                 | Potentially useful for hearing-related confusion; verify return policy and real-world caption accuracy before relying on it.                              |

## Wearable Electronic Devices for Alzheimer's Disease and Other Forms of Dementia

| Product name                                                                | Availability                                                                            | Best stage fit                                  | Specific dementia-care use                                                                                                                                              | Caregiver/person benefit and caution                                                                                                   |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Solos AirGo A5 / AirGo Vision [P07]</b>                                  | Direct purchase in supported configurations                                             | MCI, mild                                       | AI assistant glasses for event reminders, scheduling, translation, audio, and camera-assisted features in some models.                                                  | Best as an early-stage cueing and communication tool; not a safety tracker.                                                            |
| <b>Brilliant Labs Halo [P08]</b>                                            | Direct purchase/early-adopter product                                                   | MCI/mild early adopter only                     | Open-source AI glasses with Noa conversational AI and long-term memory features.                                                                                        | Promising for cognitive augmentation, but not a clinical dementia product and may require tech comfort.                                |
| <b>Google / Warby Parker / Gentle Monster intelligent eyewear [P46-P47]</b> | Google/Samsung audio glasses announced for fall 2026; display models later              | Future MCI/mild use if released and accessible  | Gemini-powered audio glasses from Warby Parker and Gentle Monster are intended for directions, texts, photos, and hands-free assistance; display eyewear follows later. | Promising early-stage assistance, but not yet shipping as of August 11, 2026 and not validated as dementia care.                       |
| <b>Snap SPECS AR Glasses [P48]</b>                                          | Preorder at \$2,195 with \$200 refundable deposit; expected fall 2026 in U.S./UK/France | Not recommended for routine dementia care today | Standalone AR glasses with spatial computing, AI assistance, hand tracking, and up to four hours mixed use.                                                             | Cost and complexity make SPECS unsuitable for routine dementia care today; treat as a future platform, not a caregiver safety product. |

### 12.2 AI memory, note-taking, and ambient assistant wearables

These products are conversational memory supports, not GPS trackers. They can capture appointments or care instructions and generate summaries/reminders in MCI or mild dementia only when the person and conversation partners understand and consent. Current offerings differ sharply in availability: PLAUD and Bee are shipping, while Limitless stopped new Pendant sales after its December 2025 acquisition by Meta.

| Product name                           | Availability                                                                                                                      | Best stage fit                               | Specific dementia-care use                                                                                                                                               | Caregiver/person benefit and caution                                                                                                                            |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PLAUD NotePin / NotePin S [P13]</b> | Direct purchase: NotePin \$159; NotePin S \$179; 300 transcription minutes/month included                                         | MCI, mild                                    | Wearable recorder/notetaker for appointments and care instructions; up to 20 hours continuous recording, 40 days standby, and 112-language transcription are advertised. | Can preserve source-linked summaries and action items; requires explicit consent, caregiver review, privacy discipline, and correction of transcription errors. |
| <b>Bee AI wearable [P14]</b>           | Direct purchase in the U.S.; Bee Pioneer \$49.99; iOS and Android apps                                                            | MCI, mild                                    | Button-controlled ambient capture that creates summaries, suggested tasks, and reminders; advertised seven-day battery and up to 40 languages.                           | Low-cost early-stage memory support, not a safety tracker or medical device; define when recording is allowed and who may review the resulting data.            |
| <b>Limitless Pendant [P15]</b>         | Discontinued for new buyers after Meta acquisition in December 2025; existing-customer support was promised for at least one year | Historical / existing owners only            | Former conversation-capture and recall pendant.                                                                                                                          | Do not recommend as a new purchase. Existing users should export data, confirm support deadlines, and plan a replacement.                                       |
| <b>Friend AI Pendant [P53]</b>         | Consumer AI companion; not recommended as a core dementia device                                                                  | Generally not a dementia-care recommendation | Companion-style AI that listens/responds through an app.                                                                                                                 | Not a caregiver safety system, not medical, and may create privacy or emotional-dependence concerns.                                                            |

### 12.3 Dedicated GPS, wandering, identification, and rescue products

When wandering risk appears, move from item finding to a layered response: immediate exit detection, a purpose-built tracker selected for wearing/charging/coverage, medical or NFC identification, and a rehearsed human response. For most U.S. families, start with Tranquil if the person accepts a watch and AT&T passes the route test; otherwise move to AngelSense GPS4 for secure continuous wear, GPS SmartSole for reliable shoe wearing, or Theora as a daily-charge alternative.

## Wearable Electronic Devices for Alzheimer's Disease and Other Forms of Dementia

| Product name                                                | Availability                                          | Best stage fit                          | Specific dementia-care use                                                                                                       | Caregiver/person benefit and caution                                                                                                                                                                                                                                  |
|-------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tranquil GPS Watch [P17]</b>                             | Direct purchase or rental + service                   | Mild, moderate                          | Preferred watch when tolerated: home beacon/safe zones, locking strap, SOS, auto-answer voice, and 30-second emergency tracking. | Up to seven-day claimed battery; verify AT&T locally. August snapshot: \$945 + \$44.95/mo annual-billed or \$54.95 monthly; no professional monitoring or advertised automatic fall detection; indoor GPS and five-minute exit timer require an immediate door alarm. |
| <b>AngelSense GPS4 / Watch [P18]</b>                        | Direct purchase + service                             | Mild, moderate; selected late if mobile | Continuous tracking, proactive alerts, secure wearing, auto-pickup voice, alarm, route history, SOS, and live responder sharing. | \$229 kit; service from about \$39.99/mo. GPS4 up to 24 hours (watch 16); AT&T-Mobile; IPX7 water-resistant; beta/optional fall detection; daily charging and privacy planning required.                                                                              |
| <b>GPS SmartSole by MetAlert [P20]</b>                      | Direct purchase + service                             | Mild through late if ambulatory         | Hidden shoe-insole GPS with geozones and map tracking when visible devices are removed.                                          | \$229 + \$49/mo; 24–96-hour advertised runtime; works only in tracked shoes and must be tested before trimming.                                                                                                                                                       |
| <b>Theora Connect / Theora Care [P16]</b>                   | Direct purchase + service/app                         | Mild, moderate; selected late if mobile | GPS watch, safe zones, SOS, auto-answer voice, caregiver alerts, locking clasp, and optional fall detection.                     | \$297.97 device + \$39.97 activation + \$29.97/mo; optional fall detection \$10/mo; 18–24-hour daily-charge battery; calls caregiver, not 911; no professional monitoring center.                                                                                     |
| <b>Jiobit Smart Tag [P19]</b>                               | Direct purchase + service                             | Mild, moderate as location layer        | Small clip/tag tracker with Trusted Places, Care Teams, Live Mode, and SOS features.                                             | Less stigmatizing than a watch; no full medical-alert operator workflow; verify current plan and network terms.                                                                                                                                                       |
| <b>MiniFinder Watch [P23]</b>                               | Direct purchase + service; region-dependent           | Mild, moderate                          | Medical-alert GPS watch with SOS, fall detection, medication reminders, health metrics, and two-way communication.               | Confirm U.S./local cellular support, emergency-routing model, price, and fall-detection limits before purchase.                                                                                                                                                       |
| <b>Project Lifesaver [P21]</b>                              | Enrollment through participating public-safety agency | Moderate, late if mobile/elopement risk | Radio-frequency bracelet used by trained search-and-rescue agencies.                                                             | Not a consumer GPS watch; value depends on local agency participation and immediate caregiver reporting.                                                                                                                                                              |
| <b>MedicAlert / Hawai'i Silver Alert NFC [P22]</b>          | Direct enrollment / state registration + ID           | Mild through late                       | Medical or NFC identification and emergency profile when electronics fail or the person cannot communicate.                      | Essential backup; the Hawai'i NFC wristband is not GPS and formal Silver Alert activation remains a law-enforcement decision.                                                                                                                                         |
| <b>AirTag (2nd generation) / SmartTag2 / Tile [P50–P52]</b> | Direct purchase                                       | MCI, mild; backup only later            | Item tracking for keys, wallet, cane, walker, bag, purse, jacket, or shoes.                                                      | AirTag 2 improves item finding, but Apple says not to track people; no SOS, voice, geofence, cellular GPS, or emergency workflow.                                                                                                                                     |

### 12.4 Medical-alert, fall-detection, and general safety wearables

These products are most useful when the core risk is falls, emergency response, inability to call for help, or caregiver anxiety about living alone. They do not all solve wandering. For a person with dementia, automatic detection and professional monitoring may become more valuable than a manual SOS button as the disease progresses.

| Product name                                        | Availability                                                     | Best stage fit                             | Specific dementia-care use                                                                                          | Caregiver/person benefit and caution                                                                             |
|-----------------------------------------------------|------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Apple Watch [P25]</b>                            | Direct purchase; cellular recommended for safety away from phone | MCI, mild; selected moderate if tolerated  | Fall detection, Emergency SOS, medication reminders, calls/messages, location sharing, health trends.               | Excellent normal-looking device, but charging, interface complexity, and wearer acceptance are limiting factors. |
| <b>Google Pixel Watch [P26]</b>                     | Direct purchase                                                  | MCI, mild                                  | Fall detection, Emergency SOS, safety features, health/wellness tracking.                                           | Good Android option; not dementia-specific and depends on setup/connectivity.                                    |
| <b>Samsung Galaxy Watch [P27]</b>                   | Direct purchase                                                  | MCI, mild                                  | Hard-fall detection, SOS, emergency contacts, health metrics.                                                       | Strong Samsung ecosystem option; fall detection must be enabled and can miss events.                             |
| <b>Garmin watches with Incident Detection [P28]</b> | Direct purchase                                                  | MCI, mild active users                     | Incident detection/assistance during supported activities, sends location to emergency contacts via Garmin Connect. | Best for active walkers/runners/cyclists; often needs paired phone and supported activity context.               |
| <b>Kanega Watch by UnaliWear [P29]</b>              | Direct purchase + monitoring subscription                        | Mild, moderate; selected late if tolerated | Voice-activated medical alert watch, automatic fall detection, 24/7 monitoring, swappable batteries.                | Designed for seniors and avoids nightly charging; not a full dementia GPS wandering platform.                    |

## Wearable Electronic Devices for Alzheimer's Disease and Other Forms of Dementia

| Product name                           | Availability                              | Best stage fit            | Specific dementia-care use                                                                                            | Caregiver/person benefit and caution                                                                       |
|----------------------------------------|-------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Bay Alarm Medical SOS Smartwatch [P30] | Direct purchase + monitoring subscription | Mild, moderate            | SOS button, operator two-way voice, GPS location, optional AI-powered fall detection.                                 | Good medical-alert watch when professional monitoring matters.                                             |
| Medical Guardian MGMTMove [P31]        | Direct purchase + monitoring subscription | Mild, moderate            | Medical-alert smartwatch with emergency button, two-way voice, GPS, caregiver app options, and fall-detection add-on. | Simpler than a consumer smartwatch but still must be worn and charged.                                     |
| Lively Mobile2 [P32]                   | Direct purchase + service plan            | Mild through late if worn | Pendant/clip medical alert with GPS, two-way communication, 24/7 Urgent Response, optional fall detection.            | Useful when a pendant/clip is better tolerated than a watch; fall detection may require correct wear mode. |

## 12.5 Prescription, clinician-pathway, and condition-specific wearables

Many of the most important dementia-care wearables are not dementia products. They manage comorbid conditions that can mimic or worsen confusion: hypoglycemia, arrhythmia, sleep apnea, seizures, and hearing loss. These products should be selected through a clinician because the device is only useful if the result changes care.

| Product name                                             | Availability                                            | Best stage fit                                                         | Specific dementia-care use                                                                                               | Caregiver/person benefit and caution                                                             |
|----------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Dexcom G7 / Dexcom CGM with Follow app [P33]             | Prescription/diabetes clinician pathway                 | Any stage if diabetes/hypoglycemia risk                                | Continuous glucose data with caregiver followers and alerts.                                                             | Can prevent or explain confusion, sweating, falls, or agitation related to low/high glucose.     |
| FreeStyle Libre 2/3/3 Plus with LibreLinkUp [P34]        | Prescription/diabetes clinician pathway in many regions | Any stage if diabetes                                                  | CGM data and alarms shared with family/friends/caregivers.                                                               | Strong caregiver value when the person cannot reliably report symptoms.                          |
| Eversense 365 CGM [P35]                                  | Clinician-placed implantable sensor                     | Any stage if diabetes and suitable                                     | One-year implantable CGM sensor with removable smart transmitter.                                                        | Reduces frequent sensor replacement burden; requires healthcare-provider insertion/removal.      |
| Medtronic Guardian / CareLink Connect [P36]              | Prescription/diabetes clinician pathway                 | Any stage if diabetes on compatible Medtronic system                   | Care partners can view glucose/pump data and receive alerts.                                                             | Useful when diabetes management shifts from patient-led to caregiver-supported.                  |
| EpiMonitor by Empatica / EmbracePlus [P37-P38]           | Prescription-only in the U.S.                           | Any stage if generalized tonic-clonic seizures occur or are suspected  | Wrist-worn seizure monitoring adjunct that can alert caregivers.                                                         | Not a general dementia monitor; use only when seizure risk is clinically relevant.               |
| iRhythm Zio XT / Zio AT [P39]                            | Clinician-prescribed cardiac monitoring                 | Mild through late when falls/syncope/palpitations occur                | Wearable ECG patch/service for arrhythmia detection and clinician-reviewed reports.                                      | Helps determine whether "falls" or confusion episodes have a cardiac cause.                      |
| Philips ePatch [P41]                                     | Clinician-prescribed cardiac monitoring                 | Mild through late if clinically indicated                              | Extended Holter patch that records heart rhythms for clinician analysis.                                                 | Alternative cardiac patch option when arrhythmia evaluation is needed.                           |
| Bardy CAM Patch [P42]                                    | Clinician-prescribed cardiac monitoring                 | Mild through late if clinically indicated                              | P-wave-centric ambulatory ECG patch monitor.                                                                             | Can help clarify rhythm-related falls, fainting, or palpitations.                                |
| WatchPAT ONE / WatchPAT 300 / WatchPAT 400 [P40]         | Clinician-ordered home sleep apnea test                 | MCI through moderate; selected late only if care goals support testing | Wrist/finger/chest home sleep apnea diagnostic testing.                                                                  | Sleep apnea treatment may improve daytime function, nighttime disruption, and caregiver burden.  |
| Prescription hearing aids [P10 / FDA framework]          | Audiologist/hearing professional pathway                | MCI through late if tolerated                                          | Treats hearing loss that worsens misunderstanding, withdrawal, and agitation.                                            | Often more important than AI because communication failures can look like cognitive worsening.   |
| Empatica Health Monitoring Platform / EmbracePlus [P49]  | Clinical/research/healthcare program                    | Research/clinical monitoring; selected facility use                    | FDA-cleared physiologic data collection platform for movement, sleep, EDA, temperature, SpO2 and other digital measures. | Promising for research and clinician workflows; not a standard family purchase dementia monitor. |
| Clinical actigraphy watches [P49 / sleep clinic pathway] | Clinician/research pathway                              | Any stage when sleep-wake disruption must be measured                  | Objective sleep-wake/activity rhythm measurement.                                                                        | Useful for documenting sundowning, nighttime wandering, sleep disruption, or care-plan response. |

## 12.6 Promising products and platforms under development

The most promising emerging area is not another item tracker. It is passive sensing: smart textiles, distress detection, agitation prediction, and non-invasive Alzheimer's treatment devices. These should be framed as

research or investigational options unless and until they become cleared, clinically validated, and available for routine caregiver purchase.

| Product name                                                            | Availability                             | Best stage fit                                           | Specific dementia-care use                                                                               | Caregiver/person benefit and caution                                                                     |
|-------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Cognito Therapeutics Spectris AD [P43]</b>                           | Investigational / clinical trial pathway | Mild-to-moderate Alzheimer's                             | Home visual/auditory gamma stimulation device aimed at cognitive/functional symptoms.                    | Promising but not a normal consumer purchase; Breakthrough designation is not the same as full approval. |
| <b>NeuroEM MemorEM [P44]</b>                                            | Investigational / clinical trial pathway | Mild-to-moderate Alzheimer's                             | Head-worn transcranial electromagnetic treatment concept for daily in-home sessions.                     | Promising but investigational; verify trial status and regulatory approval before considering.           |
| <b>Milbotix SmartSocks / SmartSocks Comfort [P45]</b>                   | Research/development; researcher access  | Moderate-to-late dementia, especially distress/agitation | Sensor socks to monitor heart rate, motion, sweat/EDA, skin temperature, and distress signals.           | Very promising because socks are familiar and less stigmatizing than wrist wearables.                    |
| <b>Agitation-prediction systems using Empatica EmbracePlus [P49]</b>    | Research/clinical pilot pathway          | Moderate-to-late dementia                                | AI models combine wrist sensor data and other sensing to predict agitation/aggression before escalation. | Potentially valuable for reducing crisis behaviors, but not a mature home product.                       |
| <b>Google/Warby Parker/Gentle Monster intelligent eyewear [P46-P47]</b> | Upcoming product ecosystem               | Future MCI/mild support                                  | Gemini-powered audio/display glasses for directions, texts, photos, and contextual assistance.           | Could become important for early-stage cueing and navigation if caregiver controls and privacy mature.   |
| <b>Snap SPECS AR glasses [P48]</b>                                      | Preorder/AR development platform         | Future specialty use only                                | Standalone AR glasses for spatial computing and developer-created experiences.                           | Too complex for routine dementia care now, but may influence future AR caregiver tools.                  |

## 12.7 Quick product shortlist by dementia stage

This table translates the full catalog into practical starting points. The final selection should be based on what the person will actually wear, what the caregiver can maintain, and what problem is being solved.

| Stage                    | Named products to evaluate first                                                                                                                                                                          | Primary problem solved                                                                    | Implementation note                                                                                                                        |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MCI</b>               | AirTag (2nd gen)/SmartTag2/Tile for belongings; Apple Watch; Ray-Ban Meta Gen 2 or Solos; Nuance Audio; PLAUD NotePin or Bee; prescription hearing aids/CGM if indicated                                  | Lost belongings, memory cueing, captions/hearing, routine support, diabetes safety        | Keep the tone "independence support," not surveillance.                                                                                    |
| <b>Mild dementia</b>     | Tranquil first when watch + AT&T fit; AngelSense GPS4 for secure wear; GPS SmartSole for tracked shoes; Theora alternative; MedicAlert/Hawai'i Silver Alert NFC; Envision/Xander if vision/hearing issues | Safer walking, caregiver reachability, medication prompts, communication support          | Introduce and test the tracker while the person can participate; add an immediate door alarm, current response packet, and identification. |
| <b>Moderate dementia</b> | Tranquil, AngelSense GPS4, GPS SmartSole, Theora, Project Lifesaver, MedicAlert/Hawai'i Silver Alert NFC, Kanega/Lively, CarePredict                                                                      | Wandering response, auto-answer communication, fall response, facility/caregiver workflow | Use passive alerts and caregiver-managed response; test hallways/elevators/garage/routes and call 911 if not found within 15 minutes.      |
| <b>Late dementia</b>     | MedicAlert/non-removable or Hawai'i Silver Alert NFC ID; Project Lifesaver if mobile; GPS SmartSole if tracked shoes are reliable; facility wearable; clinical monitoring only when care-relevant         | Identification, comfort, fall/elopement response, distress/seizure/metabolic monitoring   | Comfort and dignity matter more than feature count. Avoid devices that increase agitation or skin injury.                                  |

## 12.8 Product-selection cautions specific to AI glasses

- AI glasses may help with reading, captions, reminders, translation, and caregiver-assisted troubleshooting, but they do not reliably solve wandering, falls, medication ingestion, or emergency response.
- A camera on the face can create privacy issues in clinics, bathrooms, care facilities, restaurants, and family gatherings. Establish consent rules early.
- Display glasses can increase cognitive load. In moderate or late dementia, a display may be confusing, distracting, or distressing.
- Always evaluate battery life, prescription-lens compatibility, water resistance, return policy, caregiver controls, data storage, and whether the device works without the wearer operating a phone.
- If the person has hearing loss, hearing support or live captions may be more valuable than general-purpose AI.
- For a caregiver, a simple, reliable GPS watch with auto-answer may be more useful than advanced AI glasses if the real risk is elopement or getting lost.

## 12.9 Product catalog source notes

The product-name catalog uses manufacturer, regulator, clinical-trial, and official support pages where available. Source IDs in the product tables correspond to the notes below. International source IDs are added in Section 13.5.

| ID  | Product / source                                         | Link                                   |
|-----|----------------------------------------------------------|----------------------------------------|
| P01 | Ray-Ban Meta (Gen 2) launch and product update           | <a href="#">Official / source page</a> |
| P02 | Ray-Ban Meta AI Glasses                                  | <a href="#">Official / source page</a> |
| P03 | Meta Ray-Ban Display (\$799 launch)                      | <a href="#">Official / source page</a> |
| P04 | Meta / EssilorLuxottica Meta Glasses launch note         | <a href="#">Official / source page</a> |
| P05 | Oakley Meta HSTN                                         | <a href="#">Official / source page</a> |
| P06 | Envision Glasses / Ally on smart glasses                 | <a href="#">Official / source page</a> |
| P07 | Solos AirGo smart glasses                                | <a href="#">Official / source page</a> |
| P08 | Brilliant Labs Halo                                      | <a href="#">Official / source page</a> |
| P09 | XanderGlasses captioning glasses                         | <a href="#">Official / source page</a> |
| P10 | Nuance Audio Hearing Glasses                             | <a href="#">Official / source page</a> |
| P11 | HearView MYVU Air Subtitle Glasses                       | <a href="#">Official / source page</a> |
| P12 | XRAI Glass captions/translation platform                 | <a href="#">Official / source page</a> |
| P13 | PLAUD NotePin / NotePin S                                | <a href="#">Official / source page</a> |
| P14 | Bee Pioneer AI wearable                                  | <a href="#">Official / source page</a> |
| P15 | Limitless acquisition and Pendant discontinuation notice | <a href="#">Official / source page</a> |
| P16 | Theora Connect current product and pricing               | <a href="#">Official / source page</a> |
| P17 | Tranquil GPS Watch current product and pricing           | <a href="#">Official / source page</a> |
| P18 | AngelSense GPS4 / Watch for dementia                     | <a href="#">Official / source page</a> |
| P19 | Jiobit GPS tracker for seniors                           | <a href="#">Official / source page</a> |
| P20 | GPS SmartSole by MetAlert                                | <a href="#">Official / source page</a> |
| P21 | Project Lifesaver                                        | <a href="#">Official / source page</a> |
| P22 | MedicAlert Safe & Found dementia program                 | <a href="#">Official / source page</a> |
| P23 | MiniFinder Watch                                         | <a href="#">Official / source page</a> |
| P24 | CarePredict @Home / Tempo                                | <a href="#">Official / source page</a> |
| P25 | Apple Watch fall detection                               | <a href="#">Official / source page</a> |
| P26 | Google Pixel Watch safety and fall detection             | <a href="#">Official / source page</a> |
| P27 | Samsung Galaxy Watch fall detection                      | <a href="#">Official / source page</a> |
| P28 | Garmin Incident Detection / Assistance                   | <a href="#">Official / source page</a> |
| P29 | Kanega Watch by UnaliWear                                | <a href="#">Official / source page</a> |
| P30 | Bay Alarm Medical SOS Smartwatch                         | <a href="#">Official / source page</a> |
| P31 | Medical Guardian MGMove                                  | <a href="#">Official / source page</a> |
| P32 | Lively Mobile2                                           | <a href="#">Official / source page</a> |
| P33 | Dexcom Follow / Dexcom CGM sharing                       | <a href="#">Official / source page</a> |
| P34 | FreeStyle LibreLinkUp                                    | <a href="#">Official / source page</a> |
| P35 | Eversense 365 CGM                                        | <a href="#">Official / source page</a> |
| P36 | Medtronic CareLink Connect                               | <a href="#">Official / source page</a> |
| P37 | Empatica EpiMonitor                                      | <a href="#">Official / source page</a> |
| P38 | FDA 510(k) summary for EpiMonitor                        | <a href="#">Official / source page</a> |
| P39 | iRhythm Zio                                              | <a href="#">Official / source page</a> |
| P40 | WatchPAT home sleep apnea testing                        | <a href="#">Official / source page</a> |
| P41 | Philips ePatch                                           | <a href="#">Official / source page</a> |
| P42 | Bardy CAM Patch                                          | <a href="#">Official / source page</a> |
| P43 | Cognito Therapeutics Spectris AD                         | <a href="#">Official / source page</a> |

## Wearable Electronic Devices for Alzheimer's Disease and Other Forms of Dementia

| ID  | Product / source                                               | Link                                   |
|-----|----------------------------------------------------------------|----------------------------------------|
| P44 | NeuroEM MemorEM                                                | <a href="#">Official / source page</a> |
| P45 | Milbotix SmartSocks                                            | <a href="#">Official / source page</a> |
| P46 | Google Android XR intelligent eyewear — fall 2026 announcement | <a href="#">Official / source page</a> |
| P47 | Warby Parker Intelligent Eyewear                               | <a href="#">Official / source page</a> |
| P48 | Snap SPECS price, preorder, and fall 2026 shipping target      | <a href="#">Official / source page</a> |
| P49 | Empatica EmbracePlus / Health Monitoring Platform              | <a href="#">Official / source page</a> |
| P50 | Apple AirTag (2nd generation) / Find My for personal items     | <a href="#">Official / source page</a> |
| P51 | Samsung Galaxy SmartTag2                                       | <a href="#">Official / source page</a> |
| P52 | Tile by Life360 trackers                                       | <a href="#">Official / source page</a> |
| P53 | Friend AI Pendant                                              | <a href="#">Official / source page</a> |

## 13. International Product Watchlist [return to TOC](#)

Foreign-market products add useful options, but cellular bands, SIM provisioning, emergency-response models, language support, privacy law, warranty coverage, stock, and clinical/regulatory status vary by country. This watchlist was retained for discovery and re-framed for August 2026; it is not an import recommendation, and every regional service must be reverified where the person will actually use it.

### International purchasing rule

Buy GPS, medical-alert, and telecare products through a provider in the country where the person will actually use the device whenever possible. Global import is more realistic for AI glasses and notetakers, but even those require privacy, consent, language, warranty, and caregiver-support checks.

Figure 13-1. International products added by practical category.

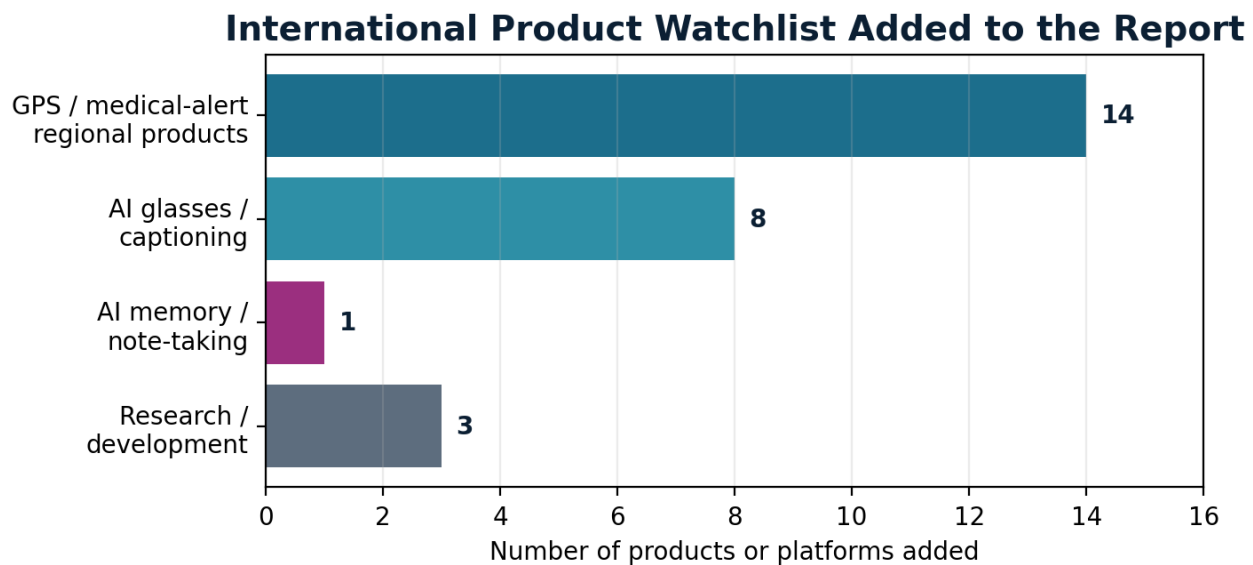


Figure 13-1. Product count is an editorial inventory count, not a market-size estimate or endorsement.

### 13.1 International GPS, wandering, medical-alert, and rescue products

These products are the most region-dependent. A GPS or medical-alert product may be excellent in its home market and still be unsuitable elsewhere if the SIM, app, monitoring center, emergency escalation, or device warranty does not work where the person lives.

| Product / country or region                     | Availability                                                             | Best stage fit                           | Specific dementia-care use                                                                                                                                 | Caregiver/person benefit and caution                                                                                                              |
|-------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Otiom GPS Locator Tag [G01] - Denmark / UK / EU | Direct purchase or partner distribution; availability varies by country. | Mild, moderate; selected late if mobile. | Dementia-specific tag with safe zones; tracking starts when the person leaves a predefined safe area; up to one-month battery; indoor/outdoor positioning. | Strong dignity model because it avoids continuous monitoring; verify local distribution, subscription, and whether the tag is currently in stock. |
| MiniFinder Watch / Pico [G02] - Sweden / EU     | Direct purchase plus service; regional cellular support.                 | Mild, moderate; selected late.           | GPS alarm watch or small tracker; real-time positioning, SOS, fall detection, medication reminders, and two-way communication depending on model.          | Good European option where service/support is available; verify SIM, cellular bands, language support, and fall-detection limits.                 |

## Wearable Electronic Devices for Alzheimer's Disease and Other Forms of Dementia

| Product / country or region                              | Availability                                                                                  | Best stage fit                                       | Specific dementia-care use                                                                                                                                      | Caregiver/person benefit and caution                                                                                            |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Sensorem personal alarm / GPS watch [G03] - Sweden / EU  | Direct purchase or subscription in supported markets.                                         | Mild, moderate.                                      | GPS watch with app-based real-time location, geofence alerts, and calls to relatives when the wearer leaves a safe area.                                        | Useful Nordic/EU option for family-managed response; confirm app language, support hours, and emergency escalation model.       |
| Safemate mobile security alarm [G04] - Norway / Nordics  | Telecare, municipal, or healthcare procurement.                                               | Moderate; selected late if mobile.                   | Mobile security alarm for inside/outside the home; can call for help and allow caregivers/services to locate the user even without an alarm.                    | Valuable when integrated into municipal care workflows; not usually a simple U.S.-style retail purchase.                        |
| Zembro Oktave / Zembro Mini [G05] - Belgium / EU         | Direct purchase plus subscription/service .                                                   | Mild, moderate.                                      | Wrist or pendant alarm with SOS, two-way audio, optional automatic fall detection, and charger/BLE beacon support for at-home location context.                 | More personal-alarm than dementia-specific tracker; verify country coverage, monitoring options, and fall-detection settings.   |
| Mindme Wrist Locate / Pendant Locate [G06] - UK          | Direct purchase/enrollment with response-centre support options.                              | Mild, moderate.                                      | Wrist-worn or pendant locating device designed for people with dementia or learning difficulties; carers can locate through the website/app or Response Centre. | Good UK wandering-risk option; response-centre service and app support may not translate outside the UK.                        |
| Taking Care Dementia Tracker Watch [G07] - UK            | Direct purchase plus monthly service; 24-hour monitoring.                                     | Mild, moderate.                                      | GPS dementia tracker watch with safe-zone alerts, SOS, Emergency Resolution Team support, and voice-message features for friends/family.                        | Strong fit where UK 24/7 monitoring is desired; it is intentionally not a normal mobile phone.                                  |
| SureSafeGO / SureSafe Dementia Tracker [G08] - UK        | Direct purchase plus family or 24/7 monitoring subscription.                                  | Mild, moderate.                                      | Watch or pendant personal alarm with GPS, geofencing, SOS, fall detection, two-way speech, and family/monitoring response options.                              | Practical medical-alert layer; no automatic fall detection is perfect and family monitoring still depends on someone answering. |
| mCareWatch MW-241 [G09] - Australia                      | Direct purchase/service; NDIS and disability-care pathway may apply.                          | Mild, moderate.                                      | 4G personal alarm smartwatch with GPS location, geofence, voice call auto-answer, text-to-speech, and dementia-oriented settings.                               | Strong regional support ecosystem in Australia; verify service plan, network, and whether it will work outside Australia.       |
| Spacetalk Life [G10] - Australia / NZ / UK               | Direct purchase plus service/monitoring.                                                      | MCI, mild; selected moderate.                        | Senior smartwatch with SOS, 4G calling, GPS/location features, fall detection, and 24/7 safety support in supported markets.                                    | More general senior smartwatch than dementia-specific tracker; success depends on setup, charging, and wearer acceptance.       |
| Tunstall Gem5 [G11] - Australia / international telecare | Telecare/personal alarm service pathway.                                                      | Mild, moderate; selected late.                       | GPS personal alarm watch with optional automatic fall detection, two-way communication, heart-rate monitoring, and Tunstall customer-care escalation.           | Good when a monitoring center matters; value depends on local Tunstall service region and care-centre response model.           |
| Familyr Dementia GPS Tracker [G12] - New Zealand         | Direct purchase; New Zealand-focused offering.                                                | Mild, moderate.                                      | Wearable medical alarm with live location, safe-zone alerts, SOS calling, and fall detection.                                                                   | Useful regional option with a no-monthly-fee positioning; verify cellular network, caregiver app, and long-term support.        |
| Uraraca GPS Walk [G13] - Japan                           | Direct purchase/supportive footwear; GPS/beacon device sold separately or configured locally. | Moderate; selected late if shoe wearing is reliable. | Footwear designed to hold a GPS tracker or beacon in the sole for people with dementia or Alzheimer's who may leave home.                                       | Not a complete GPS service by itself; best understood as a Japanese version of the shoe-based tracking strategy.                |

## Wearable Electronic Devices for Alzheimer's Disease and Other Forms of Dementia

| Product / country or region          | Availability                                                                | Best stage fit  | Specific dementia-care use                                                                                                | Caregiver/person benefit and caution                                                                                     |
|--------------------------------------|-----------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Safer Walking GPS Locator [G14] - UK | Alzheimer's Society/Ravencourt product pathway; availability can fluctuate. | Mild, moderate. | Small GPS locator with SOS button, 2-way voice, safe zones/geofences, low-battery alerts, route history, and roaming SIM. | Designed with feedback from people living with dementia; check stock status and subscription terms before relying on it. |

### 13.2 International AI glasses, captioning, and memory-support products

AI glasses and memory wearables are less tied to emergency-response infrastructure than GPS trackers, so they are more plausible global purchases. Their dementia-care role remains early-stage support: captions, reading, translation, reminders, appointment recall, and caregiver-assisted troubleshooting.

| Product / country or region                                                                                 | Availability                                                   | Best stage fit                                  | Specific dementia-care use                                                                                                      | Caregiver/person benefit and caution                                                                                         |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Envision Glasses [G15] - Netherlands / global assistive tech                                                | Direct purchase assistive-technology pathway.                  | MCI, mild; selected moderate with support.      | Reads printed/handwritten text, recognizes faces/objects/colors/light, and provides audio feedback.                             | Very useful when vision loss worsens confusion; not a dementia tracker, medical alert, or substitute for supervision.        |
| XRAI Glass [G16] - UK / global app ecosystem                                                                | App plus compatible smart glasses; direct/enterprise pathways. | MCI, mild; hearing/language support.            | Real-time subtitles, translation, speaker ID, and AI summaries on phone, screens, or smart glasses.                             | Strong for appointments and family conversations; requires consent, app literacy, and accuracy testing in noisy rooms.       |
| Nuance Audio Hearing Glasses [G17] - EssilorLuxottica / global select markets                               | OTC hearing-glasses pathway in supported markets.              | MCI, mild; selected moderate if tolerated.      | Eyeglass frames with integrated hearing support for perceived mild-to-moderate hearing loss.                                    | Communication support may reduce confusion and agitation; not an AI memory device or location product.                       |
| HearView MYVU Air Subtitle Glasses [G18] - China / global direct purchase                                   | Direct purchase.                                               | MCI, mild; hearing/language support.            | Lightweight subtitle/caption glasses with translation and AI assistance; advertised support includes 13-language transcription. | Potentially helpful for hearing-related confusion; verify accuracy, warranty, return policy, and phone/app dependence.       |
| Solos AirGo A5 / AirGo Vision [G19] - Hong Kong / global                                                    | Direct purchase in supported configurations.                   | MCI, mild.                                      | Audio AI smart glasses for reminders, scheduling, translation, music/calls, and camera-assisted AI features in selected models. | Useful as an early-stage cueing/communication tool; not a safety tracker or medical-alert system.                            |
| Brilliant Labs Halo [G20] - Singapore / global early adopter                                                | Preorder or early-adopter purchase pathway.                    | MCI/mild early adopter only.                    | Open-source AI glasses with Noa conversational AI, memory-oriented features, miniapps, and developer extensibility.             | Interesting cognitive-augmentation platform; not clinically validated for dementia and may require substantial tech comfort. |
| Google / Warby Parker / Gentle Monster intelligent eyewear [G21-G22] - U.S. / Korea / global launch pathway | Under development / expected product launch pathway.           | Future MCI/mild use if released and accessible. | Gemini-powered audio/display glasses aimed at directions, texts, photos, and contextual help.                                   | Promising heads-up assistance; not yet a proven dementia-care product and caregiver controls remain to be evaluated.         |
| Snap SPECS AR Glasses [G23] - U.S. / UK / France preorder                                                   | Preorder/developer-heavy AR product.                           | Future specialty use only.                      | Standalone AR glasses with AI assistance, work tools, entertainment, and shared AR experiences.                                 | High cost and complexity make it experimental for dementia; may influence future simplified care apps.                       |
| PLAUD NotePin / NotePin S [G24] - global direct purchase                                                    | Direct purchase.                                               | MCI, mild.                                      | Wearable AI recorder/notetaker for appointments, care instructions, family meetings, and reminders.                             | Good memory-support layer when consent is clear; not a safety, medical-alert, or wandering device.                           |

### 13.3 International products under development, research use, or historical programs

The most promising non-U.S. development themes are comfortable textiles, passive distress detection, and context-aware AI eyewear. These should be labeled as research, early-adopter, or historical unless current consumer availability and support are verified.

| Product / country or region                                                             | Availability                                                   | Best stage fit                                            | Specific dementia-care use                                                                                                     | Caregiver/person benefit and caution                                                                              |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Milbotix SmartSocks / SmartSocks DISCOVERY [G25-G26] - UK                               | Research/development; SmartSocks DISCOVERY researcher pathway. | Moderate to late dementia, especially distress/agitation. | Sock-based wearable sensors for pulse, temperature, sweat/EDA, motion, gait/activity, and distress-related signals.            | Very promising because socks are familiar and less stigmatizing; not routine consumer dementia-care purchase yet. |
| Empatica EmbracePlus agitation-prediction research [G27] - Italy/U.S./clinical research | Clinical/research platform and pilot-study use.                | Moderate to late dementia.                                | Wrist physiology and movement data used in research models to detect or predict agitation/aggression and pre-agitation states. | Useful research signal; it is not a mature home-care product or standalone agitation solution.                    |
| Me-MAMORIO by Eisai/MAMORIO [G28] - Japan                                               | Historical/discontinued; ended March 2021.                     | Not a current purchase.                                   | Small Bluetooth community-tracking tag developed to support people with dementia and seniors going out in Japan.               | Include as a cautionary example: innovative regional tracking programs may not remain commercially available.     |

### 13.4 International quick shortlist by region

| Region                        | Products to evaluate                                                                                        | Selection note                                                                                                                                           |
|-------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| UK                            | Mindme; Taking Care Dementia Tracker Watch; SureSafeGO; Safer Walking GPS Locator.                          | Strongest for dementia-specific GPS and monitored support. Verify current stock and whether the service is family-monitored or professionally monitored. |
| Nordics / EU                  | Otiom; MiniFinder; Sensorem; Safemate; Zembro.                                                              | Strong for GPS, geofencing, mobile safety alarms, and municipal telecare. Verify country-by-country service and app support.                             |
| Australia / New Zealand       | mCareWatch; Spacetalk Life; Tunstall Gem5; Familyr.                                                         | Strong for senior smartwatches, personal alarms, and mobile medical-alert response. Verify NDIS, local cellular support, and monitoring terms.           |
| Japan                         | Uraraca GPS Walk; Me-MAMORIO as historical/discontinued reference.                                          | Shoe-based and community-tag approaches are important international design ideas, but caregivers should verify current availability.                     |
| Global AI / assistive eyewear | Envision; XRAI; Nuance Audio; HearView MYVU; Solos; Brilliant Labs; Google/Warby/Gentle; Snap SPECS; PLAUD. | Best for early-stage independence, captions, reading, translation, and note capture; not a wandering or fall-response stack.                             |

### 13.5 International product source notes

Source IDs in the international tables correspond to the notes below. Country availability, price, stock, subscriptions, cellular bands, monitoring-center coverage, and regulatory labeling must be rechecked immediately before purchase or clinical use.

| ID  | Product / source                         | Link                                   |
|-----|------------------------------------------|----------------------------------------|
| G01 | Otiom GPS for people with dementia       | <a href="#">Official / source page</a> |
| G02 | MiniFinder Watch / senior safety alarm   | <a href="#">Official / source page</a> |
| G03 | Sensorem dementia tracker / GPS watch    | <a href="#">Official / source page</a> |
| G04 | Safemate mobile security alarm by Sensio | <a href="#">Official / source page</a> |
| G05 | Zembro Oktave / Mini GPS senior alarms   | <a href="#">Official / source page</a> |
| G06 | Mindme Wrist Locate / Pendant Locate     | <a href="#">Official / source page</a> |

## Wearable Electronic Devices for Alzheimer's Disease and Other Forms of Dementia

| ID  | Product / source                                             | Link                                   |
|-----|--------------------------------------------------------------|----------------------------------------|
| G07 | Taking Care Dementia Tracker Watch                           | <a href="#">Official / source page</a> |
| G08 | SureSafeGO / Dementia Tracker                                | <a href="#">Official / source page</a> |
| G09 | mCareWatch personal alarm smartwatch for dementia            | <a href="#">Official / source page</a> |
| G10 | Spacetalk Life smartwatch                                    | <a href="#">Official / source page</a> |
| G11 | Tunstall Gem5 personal alarm watch                           | <a href="#">Official / source page</a> |
| G12 | Familyr dementia GPS tracker New Zealand                     | <a href="#">Official / source page</a> |
| G13 | Uraraca GPS Walk footwear                                    | <a href="#">Official / source page</a> |
| G14 | Safer Walking GPS Locator - Alzheimer's Society / Ravencourt | <a href="#">Official / source page</a> |
| G15 | Envision Glasses                                             | <a href="#">Official / source page</a> |
| G16 | XRAI Glass captioning / translation platform                 | <a href="#">Official / source page</a> |
| G17 | Nuance Audio Hearing Glasses                                 | <a href="#">Official / source page</a> |
| G18 | HearView MYVU Air Subtitle Glasses                           | <a href="#">Official / source page</a> |
| G19 | Solos AirGo smart glasses                                    | <a href="#">Official / source page</a> |
| G20 | Brilliant Labs Halo                                          | <a href="#">Official / source page</a> |
| G21 | Google Android XR intelligent eyewear announcement           | <a href="#">Official / source page</a> |
| G22 | Warby Parker Intelligent Eyewear                             | <a href="#">Official / source page</a> |
| G23 | Snap SPECS announcement                                      | <a href="#">Official / source page</a> |
| G24 | PLAUD AI note-taking products                                | <a href="#">Official / source page</a> |
| G25 | Milbotix SmartSocks                                          | <a href="#">Official / source page</a> |
| G26 | Milbotix SmartSocks DISCOVERY                                | <a href="#">Official / source page</a> |
| G27 | Empatica EmbracePlus and agitation-prediction research       | <a href="#">Official / source page</a> |
| G28 | Eisai / MAMORIO Me-MAMORIO launch and discontinuation note   | <a href="#">Official / source page</a> |

## 14. Important Disclaimer [return to TOC](#)

*Use this August 2026 report as a planning aid, not a substitute for medical, legal, privacy, purchasing, or emergency-response advice.*

- This report does not diagnose, treat, prescribe, or recommend a medical device for a specific person.
- A clinician should be involved when falls, seizures, diabetes, syncope, sleep apnea, hearing loss, medication safety, or behavioral symptoms are present.
- A local emergency-response plan, immediate exit-detection layer when indicated, and current identification should be in place before relying on location or medical-alert technology.
- No GPS, geofence, fall-detection, AI summary, or medical-alert product is perfectly accurate. Batteries, connectivity, concrete/indoor environments, carrier changes, wearer acceptance, and caregiver availability all affect safety.
- Use the least restrictive device that meaningfully addresses the real risk while preserving dignity and privacy.
- Prices, promotions, stock, subscriptions, carrier coverage, beta features, regulatory status, and support commitments are snapshots verified through August 11, 2026 and must be checked again before purchase or reliance.