

David Beaumont
Technical Lead
david.beaumont@birdie.care

Using SNOMED CT to Enhance Safe Living at Home for Older Adults

birdie

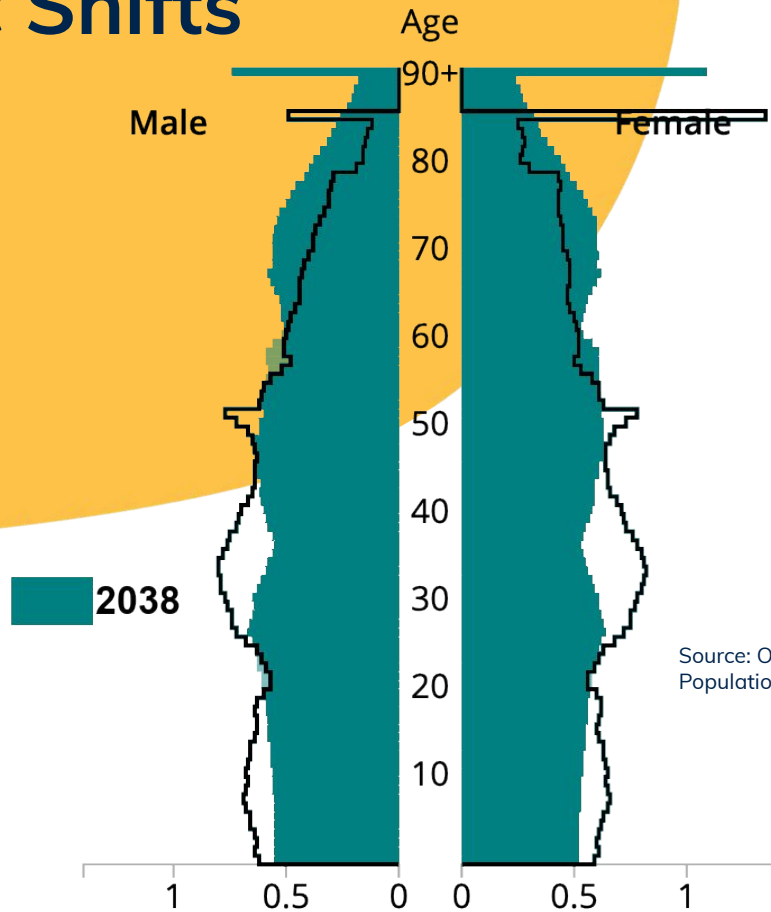




Summary

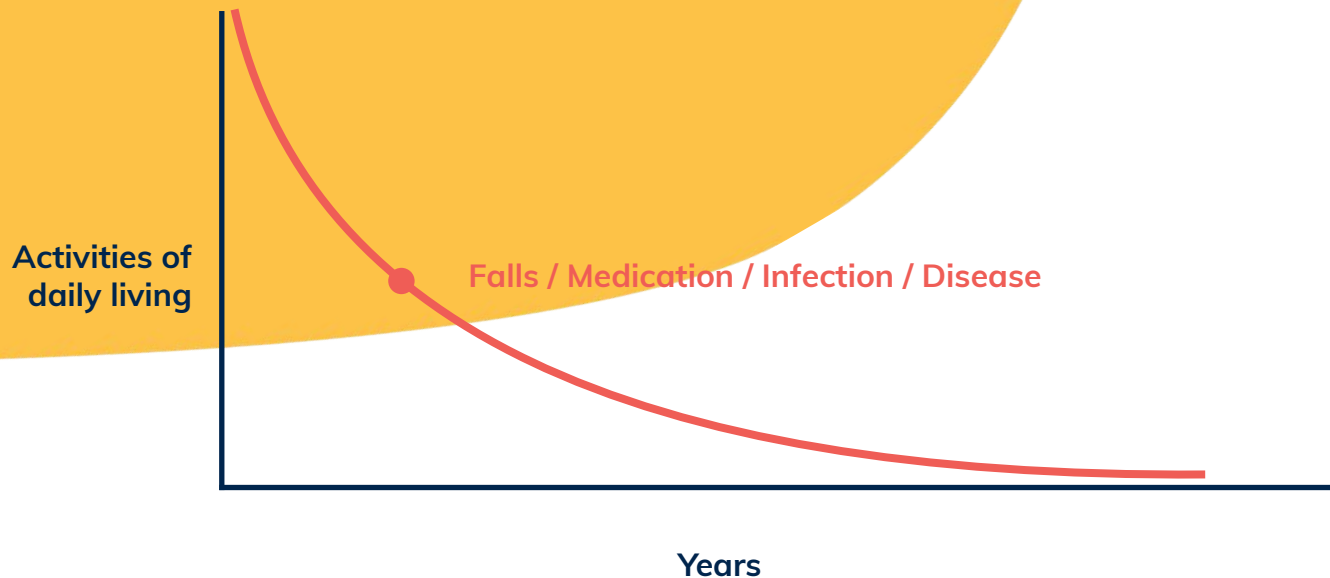
1. Birdie's mission & Social care
2. Tools we're building
3. Using SNOMED CT with medication support
4. Codifying free text and structured data
5. Future directions

Demographic Shifts

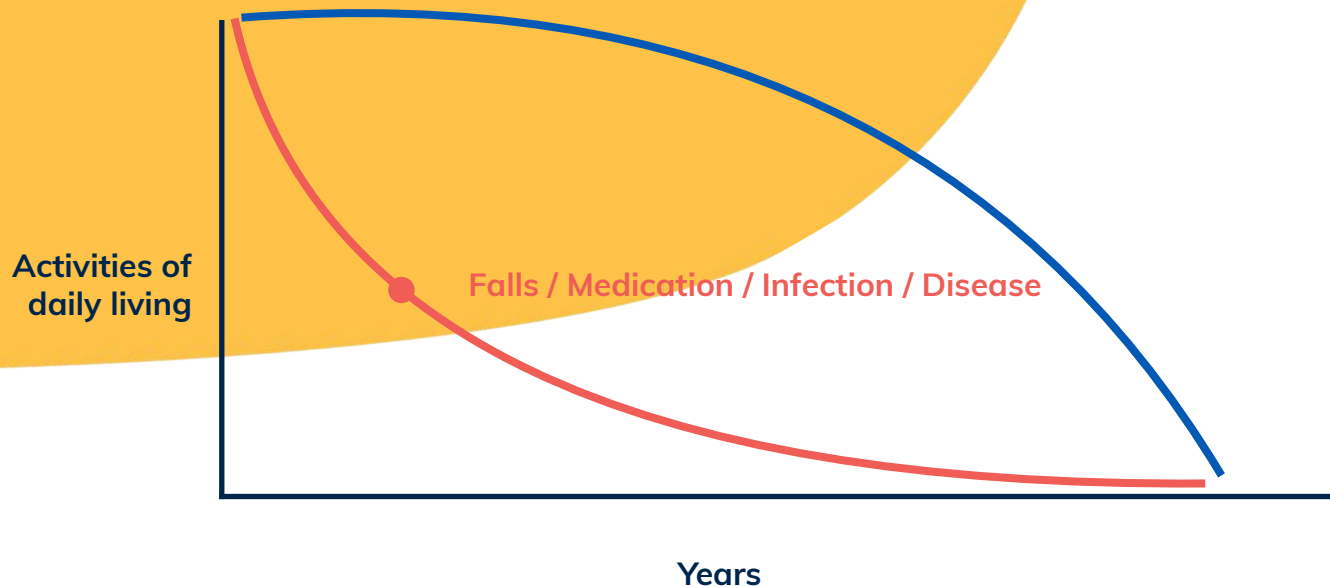


Source: Office for National Statistics, Overview of the UK Population: August 2019.

From Accommodating the Life Curve



To Inverting it



Social Care in the UK Specifics

birdie



How does Social Care Interact with Healthcare?

- Often organised through hospital discharge
- Little direct involvement once care is in place
- Everything is recorded on paper
- However, the data is comprehensive
- There is little data-sharing, let alone interoperability

Birdie's First Steps to Help Through Digitisation

The desktop interface shows a dashboard with a navigation bar (Clients, Team, Alerts, Log) and a search bar. On the left, there are filters for Client, Carer, Date, and Medication. The main area displays a list of visits:

- Christina Darwin** (16:40): visit by Camille Shehan. 2 alerts, 47 mins, 12/13 checked, 4 views.
- Albert Collins** (16:07): visit by Dan Romani. 0 alerts, 1 hour, 9/9 checked, 3 views.
- John Sheringham** (16:07): visit by Debbie Reynolds. 0 alerts, 58 mins, 8/7 checked, 0 views.
- Suzan Wright** (16:07): visit by Camille Shehan. 1 alert, 1 hour, 9/9 checked, 3 views.
- Annie Smith** (16:07): visit by Camille Shehan. 0 alerts, 1 hour, 9/9 checked, 3 views.
- Leslie Wilson** (16:07): visit by Camille Shehan.

The detailed view for Christina Darwin shows:

- Alerts:** Fall (witnessed), Late call.
- Visit time:** Check in: 15:13, Check out: 16:00, Total visit time: 47 mins.
- General notes:** Camille Shehan: Christina fell over and hit her head on the table in the kitchen. She lost her balance while trying to open a cupboard door.
- Tasks:** 11/12 tasks complete.

The mobile app interface shows a client profile for Annie Smith (Not visited yet) with 3 updates today. The updates include:

- Camille Shehan** for Annie Smith @ 19:00: Just left. Annie was on top form today! (Includes icons for mood, alerts, photos, audio, and tasks).
- Photos added:** Taken today at 15:36.
- Audio uploaded:** 1 min and 32 secs.
- Daily Summary:** for Annie Smith @ 19:00: There are no concerns reported and 2.

eMAR Using SNOMED CT

birdie Clients Team Alerts Log Search for anything

John Smith
Joined 24th Feb, 2016

Medication Monitoring

Review a monthly MAR chart and read reports from carers.

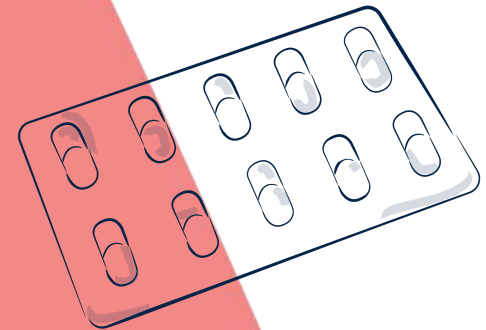
Filter by:
Medication: All Date range: This month Reason: All Print chart

Showing **all medications** in **Camille Shehan** 11th Oct @ 19:00

View events on: **Chart** List

Medication and dose	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Ibuprofen 500mg TABLET	Dose 1 08:00	▲																								
	Dose 2 12:00	✓																								
	Dose 3 16:00	✓																								
	Dose 4 Bedtime	✓																								
Cortizone 500mg CREAM	Dose 1 08:00																									
	Dose 2 12:00																									
Aspirin 500mg TABLET	Dose 1 Optional																									
	Dose 2																									

Camille Shehan
11th Oct @ 19:00
Reason: Nausea and vomiting
Notes: John refused her medication. Have alerted Jenny (Care Manager).
View alert →



Bringing Interop' to Care Logs

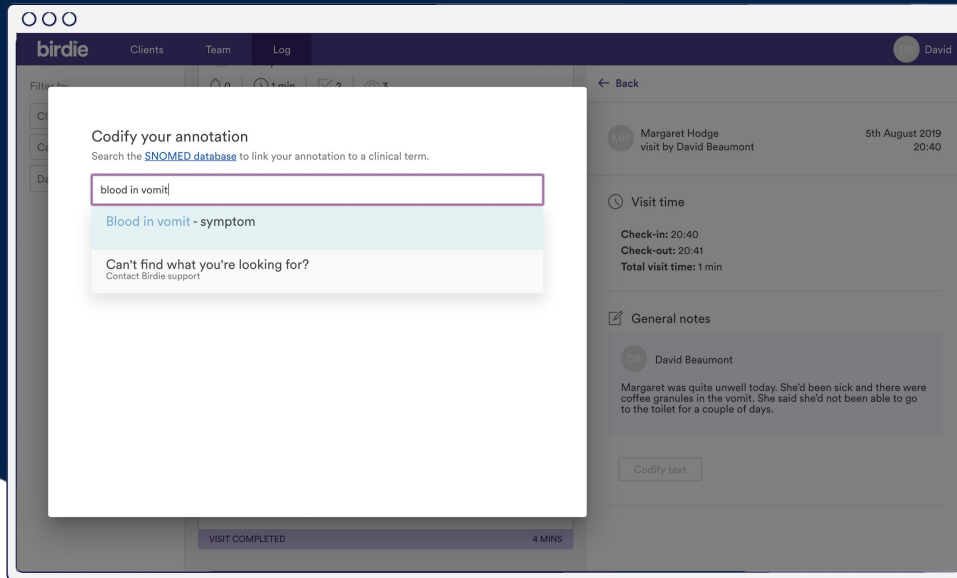
birdie



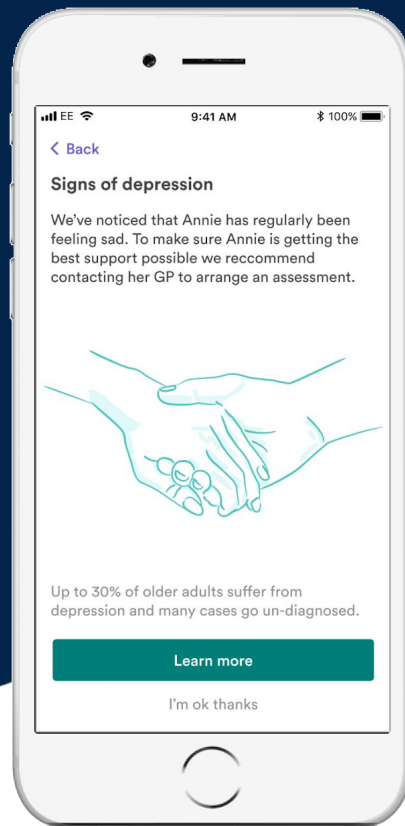
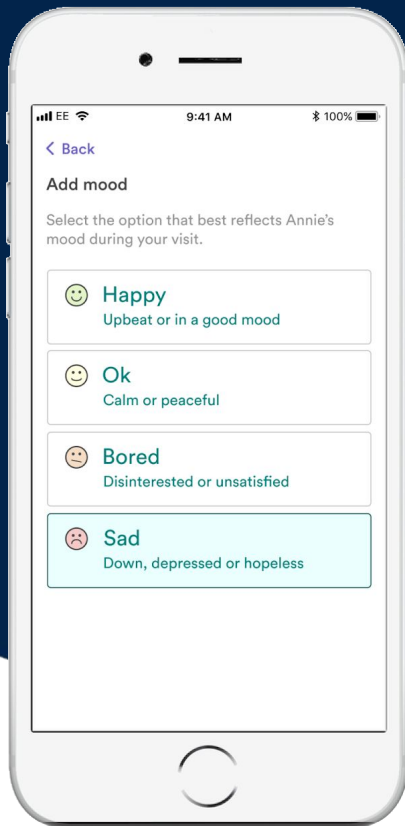
birdie

birdie.care

Bringing Interop' to Care Logs



SNOMED CT for Structured Observations



Future Improvements

- Further codification of procedures carried out in the home
- Integration with national hospital discharge summaries (FHIR)
- Making social care data available to clinicians in healthcare
- Automatic codification of colloquial text

Thanks!

David Beaumont
Technical Lead
david.beaumont@birdie.care

birdie

