

# SISTER LUCY **TRUTH**

## IDEAL INNOVATIONS, INC. (I<sup>3</sup>) REPORT

### **Biometrics expert affirms that 1967 and post-1967 “Sr. Lucy” are the same person with little or no evident connection between the pre-1967 Lucy and the “Lucy” who appeared in 1967**

In July 2021, Sister Lucy Truth (SLT) commissioned a facial analysis report from Ideal Innovations Incorporated (I<sup>3</sup>), an industry leader in facial examination, training, and biometrics and a contractor with the FBI and the Defense Forensic Science Center, which offers full-service forensic support for the US Army and Department of Defense. Although SLT provided its entire photo gallery, I<sup>3</sup>'s experts selected and analyzed only a small range of those photos to determine if any identity between the pre-1967 Sr. Lucy and both the 1967 and post-1967 “Sr. Lucy” could be determined.

In our discussions, I<sup>3</sup> admitted several notable points that the reader should keep in mind when going through this report:

1. They explicitly informed SLT that **they do not use measurements nor proportions in making comparisons**. This surprised SLT since similar reports from other experts have all used measurements and proportions.
2. I<sup>3</sup> could not explain exactly **what is meant by their scaling system** of +2, +1, 0, etc. These numbers **do not** represent percentages. +2 essentially means “more similar” than +1. 0 means observations can support neither that it is the same nor a different person.

Based on I<sup>3</sup>'s facial recognition analysis, several important results emerged:

1. When comparing photos from subjects A (young Sr. Lucy) to B (Dorothean Sr. Lucy) and B to C (1967 “Sr. Lucy”), I<sup>3</sup> was able to conclude **only a slight similarity of +1**.
2. Finally, and critically, observations **support** that the 1967 “Sr. Lucy” and post-1967 elderly “Sr. Lucy” are the same person (+2 result).

A follow-up analysis with additional images was conducted between subject B and subjects C and D (elderly, post-1967 “Sr. Lucy”). The conclusion was neutral at best: **all comparisons registered a scale result of 0 similarity**. This result implicitly indicates that **there were indeed two Lucys**, for if they were the same individual throughout, one should expect a similarity of +2 or greater as was found when comparing the 1967 “Lucy” with the elderly “Lucy.”

While not in accord with the results of our other expert reports, the analysis remains at best neutral and agnostic about the identity of the two Sr. Lucys. This neutral report therefore **does not directly contradict** the previous scientific reports that assert that there were two Lucys. The **clear identity that did emerge** was between the 1967 “Lucy” and post-1967, elderly “Lucy,” which is in accord with our previous findings that **from 1967 onwards there was one, not multiple, impostor Lucys**. SLT presents the full report here for the sake of objectivity and as further evidence of our good will, demonstrating that the results of these expert findings were independently produced and not dictated by SLT. Our investigation of the issue continues with even greater urgency.

July 9, 2021

**Task:** [REDACTED] contacted Ideal Innovations, Inc. (I3) to conduct a comparison of purported images of Lúcia de Jesus Rosa dos Santos (re: Our Lady of Fatima miracle) at various stages of her life (from 1917 until the 1990s). Sister Lúcia was one of the three child witnesses in Portugal of, what is now known as, the “Apparitions of Our Lady of Fatima”. Sister Lúcia was born on March 28<sup>th</sup>, 1907 and died on February 13<sup>th</sup>, 2005. She witnessed the apparitions at age 10. Multiple images were provided and were numbered according to subject groups (A through D). Facial Examiner (Lora Sims and Steven Johnson) consulted on what images would be best suited for comparison purposes with selections from each of the subject groups considered. Below are the agreed upon images (by subject group letter and exhibit number) for comparison (in no particular order):

**Images:**

A11



B10



A13



B12



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C3



D1



B13



C4



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B3



D7



D14



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Due to the large time and quality difference in photos, the examiners needed to compare images from Group A against images from Groups B, C and D; compare images from Group B to images from Groups C and D, and images from Group C to images from Group D. The pairings for consideration and comparison are as follows:

A11/B10



A13/B12



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A13/C3



A11/D1



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B13/C4



B3/D7



C3/D14



Comparisons of each pair of images (exhibits) was conducted using ACE-V methodology and morphological analysis of the various features of the face. The probe image is on the left, the candidate image is on the right. The context of that analysis is listed in the feature analysis checklists below:

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### A11 to B10 (with mark-up)



	<p>Significant difference in age but apparently same gender. Both A11 and B10 are B&amp;W photos, and the image quality is below average. Both subjects have some form of head covering and clothing, making face/head outline, hair, ear, and neck comparisons impractical and limiting the face/head composition, cheek, and jawline comparisons.</p> <p>A11 is poor quality, grainy and “soft” in focus. The subject is a female of European descent who appears to be in her teens. The pose is face forward (portrait) with a slight pitch up, eyes open, mouth closed, neutral expression.</p> <p>B10 is poor quality primarily due to poor resolution/focus. The subject is a female of European descent, age undetermined. The pose is face forward (portrait) with the head slightly rolled to the left. The non-neutral expression affects the eyes (mostly open but slightly closed), mouth (closed but not relaxed), eyebrows (brow furrowed towards a frown).</p>
Overall Image Quality	
Skin	True color and texture are difficult to compare given B&W and overall poor image quality, but both A11 & B10 display light colored skin.
Face/Head Outline	Head coverings make comparison impractical.
Face/Head Composition	A complete comparison of the face/head composition is not able to be completed due to the head coverings. However, the eyes, nose and mouth appear similar on the placement on the face relative to one another.
Hair	Head coverings make comparison impractical.

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Forehead	Foreheads in A11 and B10 are partially obscured due to head covering but what is visible is consistent in both images.
Eyebrows	Eyebrows appear similar in both images with the medial portions of the eyebrows in B10 being raised due to differences in expression. Eyebrow hair growth patterns, placement above the eyes, fullness, spacing, and arch are consistent in both subjects.
Eyes	Due to the poor quality of A11 and B10 the details of the eyes are not comparable however, the inferior palpebral creases under the eyes of both subjects are consistent and the intercanthal distance is similar. The placement of the eyes below the brow ridge appears similar.
Cheeks	The head covering prevents a complete comparison of the cheeks as it obstructs the lateral sides of the cheeks. However, what is visible is similar in size, shape, contour, and zygomatic bone on the cheeks.
Nose	A11 and B10 noses appear similar in length along the bridge. Base of nose in B10 is somewhat wider but could be attributed to differences in expression and pose. Thickness of columella and fullness/structure of alae is consistent in both images.
Ears	Head coverings make comparison impractical.
Mouth	The expression difference affects the mouth, specifically the upper lip. Shape and contour of the mouth fissure is consistent in both images. Lower lip fullness is consistent in both images. The philtrum area is similar in size and shape. The mentolabial sulcus appears similar in size, shape, and relative position.
Chin/Jawline	Expression and pose differences as well as the head covering obstructions make comparison of the jawline challenging. What portion of the jawline that is visible indicates that both subjects have a full/strong jawline but A11's curvature appears softer (rounder) than that of B10 (particularly the anatomical left which is most visible in both images). Could be attributed (to some degree) to the differences in expression/pose. Both subjects have a similar size and shape of chin with B10 showing some dimpling or deformity primarily due to the differences in expression.
Neck	Due to clothing, the neck is not comparable.
Facial Hair	None visible in either image.
Facial Lines	B10 exhibits notable nasolabial folds that are not readily visible in A11. This can be attributed to the differences in age. B10 exhibits slight vertical glabellar lines that are attributed to the expression difference.
Scars	None visible in either image.
Facial Marks	None visible in either image.
Alterations	None visible in either image.

### **Results A11 to B10:**

There is currently no standard conclusion scale for face comparisons. The following scale was used in this comparison:

+3: The observations strongly support that it is the same person

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- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

After comparing the A11 image to the B10 image, the determination is that the probe image has observations that support to some extent that it is the same person (+1).

DRAFT



### A13 to B12 (with mark-up)



Overall Image Quality	<p>Significant difference in age but apparently same gender. Both of the images have quality that is below average. B12 is a B&amp;W photo and A13 has a sepia tonal quality. Subject in B12 has some form of head covering and clothing, making face/head outline, hair, ear, and neck comparisons impractical and limiting the face/head composition, cheek, and jawline comparisons.</p> <p>A13 is poor quality, grainy and “soft” in focus. The subject is a female of European descent who appears to be in her early to mid-teens. The pose is face forward (portrait) yawed to the left, eyes open, mouth closed.</p> <p>B12 is poor quality primarily due to poor resolution/focus. The subject is a female of European descent, age undetermined. The pose is face forward (portrait) yawed to the left, eyes open, mouth closed, with lips somewhat pursed.</p>
Skin	True color and texture are impractical to compare given B&W/sepia image color and overall poor image quality.
Face/Head Outline	Head covering in B12 make comparison impractical.
Face/Head Composition	A complete comparison of the face/head composition is not able to be completed due to the head coverings. However, the eyes, nose and mouth appear similar on the placement on the face relative to one another.
Hair	Head coverings make comparison impractical.

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Forehead	Foreheads in B12 is mostly obscured making comparison impractical. The brow ridge follows the same contour.
Eyebrows	Eyebrow placement above the eyes, spacing between, fullness, growth patterns, contour, and asymmetry (left eyebrow is raised slightly higher than the right) appear similar in both images.
Eyes	Due to the poor quality of A13 and B12, the details of the eyes are not comparable however, the superior and inferior palpebral creases over and under the eyes of both subjects are consistent and the intercanthal distance is similar. The placement below the brow ridge, size, and shape of the eyes appears similar.
Cheeks	The head covering prevents a complete comparison of the cheeks as it obstructs the lateral sides of the cheeks. However, what is visible is similar in size, shape, contour, and zygomatic bone on the cheeks.
Nose	A13 and B12 noses appear similar in structure and have a similar nasal root. Body of nose in B12 is slightly longer than that in A13 but can be attributed to significant differences in age (the nasal body will continue to grow from childhood into adulthood). Base, tip, alae, and columella are consistent in both images.
Ears	Head covering/hair make comparison impractical.
Mouth	Shape and contour of the mouth fissure is consistent in both images. Upper and lower lip fullness is consistent in both images. The difference in expression causes the mouth to look slightly different in size (B12 appears to be pulling the corners back where A13 appears to be relaxed). Philtrum shape and size are consistent in both images. The mentalabial sulcus appears similar in size/shape and relative position.
Chin/Jawline	Expression and pose differences as well as the head covering obstructions make comparison of the jawline challenging. What portion of the jawline that is visible indicates that both subjects have a full/strong jawline. Jawline in B12 appears fuller/longer but can be attributed to significant differences in age and the physiological maturity of B12 vs. A13. Both subjects have a similar size and shape of chin.
Neck	Due to clothing, the neck is not comparable.
Facial Hair	None visible in either image
Facial Lines	B12 exhibits notable nasolabial folds that are partially visible in A13 but appear to be in the same relative position.
Scars	None visible in either image
Facial Marks	None visible in either image
Alterations	None visible in either image

### **Results A13 to B12:**

There is currently no standard conclusion scale for face comparisons. The following scale was used in this comparison:

+3: The observations strongly support that it is the same person

+2: The observations support that it is the same person

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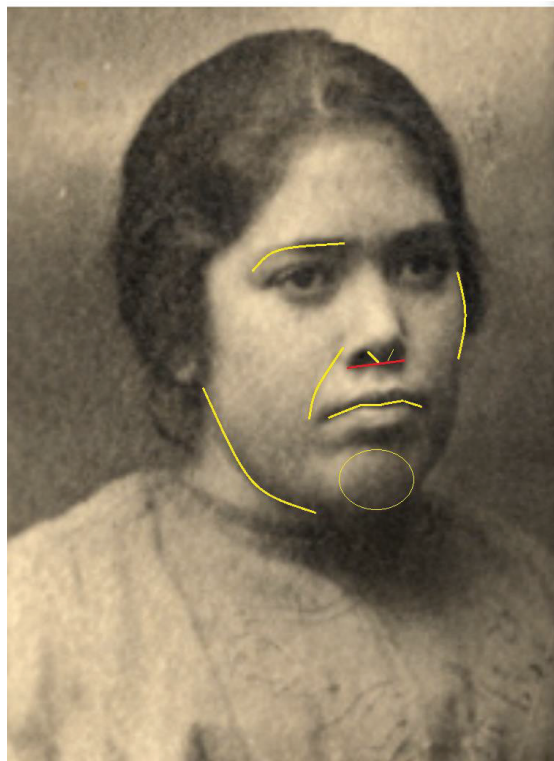
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

After comparing exhibit A13 to exhibit B12, the determination is that the probe image has observations that there is some support that it is the same person (+1).

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## A13 to C3 (with mark-up)



Overall Image Quality	<p>Significant difference in age but apparently same gender. Both photos have image quality that is below average. C3 is B&amp;W and A13 has a sepia tonal quality. Subject in C3 has some form of head covering, making face/head outline and head hair comparisons impractical.</p> <p>A13 is poor quality, grainy and “soft” in focus. The subject is a female of European descent who appears to be in her early to mid-teens. The pose is face forward (portrait) yawed to the left, eyes open, mouth closed.</p> <p>C3 is poor quality primarily due to poor resolution/focus and slight over-exposure. The subject is a female of European descent, age undetermined. The pose is face forward (portrait) yawed to the left and pitched up, eyes open, mouth slightly open (dentition exposed).</p>
Skin	True color and texture are impractical to compare given B&W/sepia image color and overall poor image quality.
Face/Head Outline	Head coverings make comparison impractical.
Face/Head Composition	A complete comparison of the face/head composition is not able to be completed due to the head coverings. However, the eyes, nose and mouth appear similar on the placement on the face relative to one another.
Hair	Head coverings make comparison impractical.

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Forehead	Foreheads in C3 is mostly obscured making comparison impractical. The brow ridge follows the same contour.
Eyebrows	Eyebrows are fuller in C3 (possibly due to age difference) with the lateral side of right eye being thicker on C3 with A13 thinning out on the lateral side of the right eye, but both following similar contours/arch. Distance between the medial ends of eyebrows in C3 appears wider than in A13 but could be due to some hair loss/lightening in C3 (age related). Slight asymmetry (left eyebrow is raised slightly higher than the right) in both images.
Eyes	Due to the poor quality of A13 and C3, many of the details of the eyes are not able to be compared. However, the inferior palpebral creases under the eyes of both subjects are consistent. The superior palpebral crease on the lateral side of the right eye appears dissimilar (could be due to aging). The intercanthal distance spacing appears dissimilar but can be explained by the difference in pose. The placement below the brow ridge appears dissimilar with the A13 eyes being set deeper under the brow ridge than C3. The shape of the eye appears dissimilar with the inferior part of the fissure appearing more rounded on A13 than on C3 and the overall eye shape appearing more rounded on A13 than more almond shaped on C3 (possibly due to aging and expression differences).
Cheeks	The head covering prevents a complete comparison of the cheeks as it obstructs the lateral sides of the cheeks. However, what is visible is similar in size, shape, contour, and zygomatic bone on the cheeks.
Nose	A13 and C3 noses appear similar in length along the bridge. Base of nose in C3 is wider but may be attributed to differences in age and expression. Thickness of columella and fullness/structure of alae is consistent in both images. The root of the nose appears more pronounced in A13 than in C3. The nostril shape appears dissimilar with C3 appearing wider and A13 appearing higher.
Ears	Head coverings/hair make comparison impractical.
Mouth	Shape and contour of the mouth fissure are consistent in both images. Lips in C3 appear thinner but can be attributed to age and expression differences. The philtrum has more defined ridges & furrow than C3 which could be attributed to the image quality and age.
Chin/Jawline	Expression and pose differences as well as the head covering obstructions make comparison of the jawline challenging. What portion of the jawline that is visible indicates that both subjects have a full/strong jawline. Both subjects have a prominent chin with A13 appearing more recessed back than the chin of C3 but can be attributed to age differences. Artifact/mark on right side of chin in C3, not visible in A13.
Neck	Due to clothing, the neck is not comparable.
Facial Hair	None visible in either image.
Facial Lines	C3 exhibits notable nasolabial folds that are partially visible in A13. A13 has a deep mentolabial sulcus under the lower lip that is not as noticeable in C3 (could be due to expression/image exposure differences).
Scars	None visible in either image.
Facial Marks	None visible in either image.
Alterations	None visible in either image.

### **Results A13 to C3:**

There is currently no standard conclusion scale for face comparisons. The following scale was used in this comparison:

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

After comparing exhibit A13 to exhibit C3, the determination is that the probe image has observations that support neither that it is the same person nor that it is different persons (0).



### A11 to D1 (with mark-up)



	<p>Significant difference in age but apparently same gender. A11 is a B&amp;W photo, and the image quality is below average. D1 is a color photo, and the image quality is average given the nature of the reproduction. Both subjects have some form of head covering and clothing, making face/head outline, hair, ear, and neck comparisons impractical and limiting the face/head composition, cheek, and jawline comparisons.</p> <p>A11 is poor quality, grainy and “soft” in focus. The subject is a female of European descent who appears to be in her early to mid-teens. The pose is face forward (portrait) with a slight pitch up, eyes open, mouth closed.</p> <p>D1 is average quality with some issues due to resolution/focus. The subject is a female of European descent, age undetermined. The pose is face forward (portrait), head pitched up with the camera placed below the subject and the subject looking down toward the camera, eyes open (wearing glasses which are obstructing the eyebrows, some parts around the eyes, the root of the nose, and the upper cheeks), mouth closed.</p>
Overall Image Quality	
Skin	True color and texture are impractical to compare given B&W/sepia image color and overall poor image quality.
Face/Head Outline	Head coverings make comparison impractical.
Face/Head Composition	A complete comparison of the face/head composition is not able to be completed due to the head coverings. However, the eyes, nose and mouth appear similar on the placement on the face relative to one another.

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Hair	Head coverings make comparison impractical.
Forehead	Foreheads in A11 and D1 are partially obscured due to head covering but what is visible is consistent in both images.
Eyebrows	Eyebrows are partially obscured in D1 due to presence of eyeglasses. Asymmetry of eyebrows (left eyebrow is raised slightly higher than the right) appears consistent in both images. Distance between the medial ends of eyebrows in D1 appears wider than in A11 but could be due to some hair loss/lightening in D1 (age related).
Eyes	Due to the poor quality of A11, many of the details of the eyes are not comparable. The superior palpebral creases and upper eyelids in both subjects are consistent with some hooding in D1 attributable to extreme differences in age.
Cheeks	The head covering prevents a complete comparison of the cheeks as it obstructs the lateral sides of the cheeks. However, what is visible is similar in size, shape, contour, and zygomatic bone on the cheeks.
Nose	Nasal body in A11 appears slightly longer than D1 but may be attributed to the slight head pitch (tilt) backwards of D1. Alae in D1 appear fuller than in A11. Base of nose in D1 is wider but may be attributed to differences in age and expression. Thickness of columella and shape of nostrils are consistent in both images. The root of D1 nose is obstructed by the eyeglasses. The overall shape of the nose appears dissimilar.
Ears	Head coverings/hair make comparison impractical.
Mouth	Shape of upper vermillion border appears dissimilar with the philtrum area of A11 being more defined in the ridges & furrows which could be attributed to aging and quality differences. The fissure shape appears dissimilar. The lower lip is more prominent/fuller on A11 than on D1. The lower lip of A11 protrudes outward where D1 does not. Mentolabial sulcus is consistent in both images.
Chin/Jawline	Expression and pose differences as well as the head covering obstructions make comparison of the jawline challenging. What portion of the jawline that is visible indicates that both subjects have a full/strong jawline. Both subjects have a prominent chin with A11 appearing more recessed back than the chin of D1 but can be attributed to age differences.
Neck	Due to clothing, the neck is not comparable.
Facial Hair	None visible in either image.
Facial Lines	D1 exhibits notable nasolabial folds, marionette lines, deep inferior palpebral creases, distinct infraorbital creases that are not visible in A11 (all likely attributable to significant differences in age). Superior palpebral creases are visible on D1 but not on A11 possibly due to pose and quality differences.
Scars	None visible in either image.
Facial Marks	None visible in either image.
Alterations	None visible in either image.

### **Results A11 to D1:**

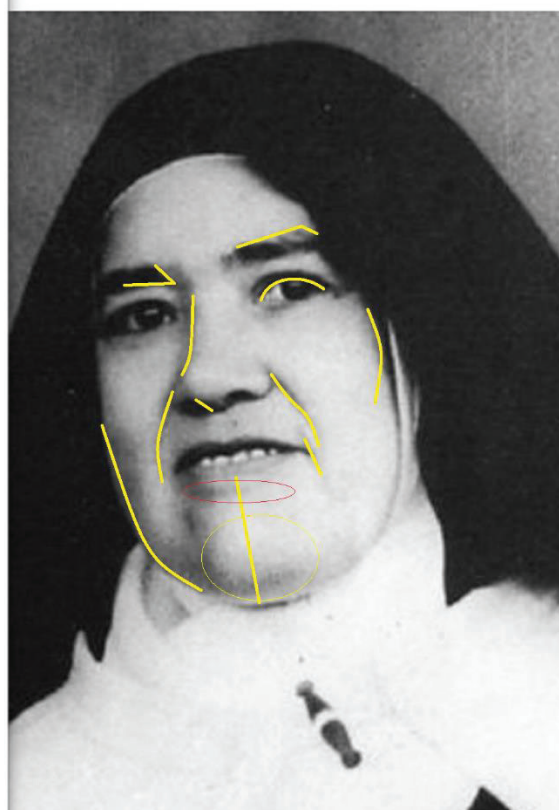
There is currently no standard conclusion scale for face comparisons. The following scale was used in this comparison:

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

After comparing exhibit A11 to exhibit D1, it cannot be determined that they are the same or different persons. (0).



## B13 to C4 (with mark-up)



Overall Image Quality	<p>Notable difference in age but apparently same gender. B13 is sepia tonal quality and C4 is B&amp;W and the image quality is below average in both. Both subjects have some form of head covering and clothing, making face/head outline, hair, ear, and neck comparisons impractical and limiting the face/head composition, cheek, and jawline comparisons.</p> <p>B13 is poor quality, grainy and “soft” in focus. The subject is a female of European descent, age undetermined. The pose is face forward (portrait) with a slight pitch down, eyes open, mouth open (dentition exposed), head rolled and yawed slightly to the right.</p> <p>C4 is poor quality with issues due to resolution/focus. The subject is a female of European descent, age undetermined. The pose is face forward (portrait) with the camera positioned below the subject, eyes open, mouth slightly open (dentition partially exposed), head rolled and yawed to the right.</p>
Skin	True color and texture are impractical to compare given B&W/sepia image color and overall poor image quality.
Face/Head Outline	Head coverings make comparison impractical.

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Face/Head Composition	A complete comparison of the face/head composition is not able to be completed due to the head coverings. However, the eyes, nose and mouth appear similar on the placement on the face relative to one another.
Hair	Head coverings make comparison impractical.
Forehead	Foreheads in B13 and C4 are partially obscured due to head covering but what is visible is consistent in both images.
Eyebrows	Asymmetry of eyebrows (left eyebrow is raised slightly higher than the right) appears consistent in both images. Distance between the medial ends of eyebrows is consistent. Arch and contour of left eyebrow is consistent in both images. Eyebrows in C4 appear fuller than in B13 but could be attributed to difference in age. Placement of the eyes on the brow ridges is similar.
Eyes	Due to the poor quality of both images, many of the details of the eyes are not comparable. The superior palpebral creases and upper eyelids in both subjects are consistent and the overall fissure shape and size are similar. Similar intercanthal spacing and placement under the brow ridges. B13 expression is affecting the eyes causing the fissure to be smaller than C4. B13 displays prominent inferior palpebral creases.
Cheeks	The head covering prevents a complete comparison of the cheeks as it obstructs the lateral sides of the cheeks. However, what is visible is similar in size, shape, contour, and zygomatic bone on the cheeks.
Nose	Nasal body, shape, structure, tip, and slope appears similar in both B13 and C4. Alae, columella and nostril shape/size appear consistent in both subjects.
Ears	Head coverings/hair make comparison impractical.
Mouth	Shape and contour of the mouth fissure are dissimilar in both images but there are notable differences in expression. Mouth in B13 is more open, exposing more dentition and forming a broader smile. Expression in C4 is more subdued/softer. Upper lips exhibit similar fullness. Thinner lower lip in C4 could be attributable to difference in age and expression. Spacing of the philtrum appears similar. Mentolabial sulcus is more visible in B13 than in C4 (lighting/expression differences).
Chin/Jawline	Expression and pose differences as well as the head covering obstructions make comparison of the jawline challenging. What portion of the jawline that is visible indicates that both subjects have a full/strong jawline. Both subjects have a prominent chin with chin on C4 appearing larger in size (possibly due to expression & quality of B13).
Neck	Due to clothing, the neck is not comparable.
Facial Hair	None visible in either image.
Facial Lines	B13 and C4 both exhibits notable nasolabial fold and marionette lines. Inferior palpebral creases under eyes in B13 not as visible in C4 could be attributable to pose, lighting, exposure differences.
Scars	None visible in either image.
Facial Marks	None visible in either image.
Alterations	None visible in either image.

### **Results B13 to C4:**

There is currently no standard conclusion scale for face comparisons. The following scale was used in this comparison:

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- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

After comparing exhibit B13 to exhibit C4, the determination is that the probe image has observations that support to some extent that it is the same person (+1).

DRAFT

### B3 to D7 (with mark-up)



Overall Image Quality	<p>Notable difference in age but apparently same gender. B3 and D7 are B&amp;W photos, and the image quality is poor in B3, average in D7. Both subjects have some form of head covering and clothing, making face/head outline, hair, ear, and neck comparisons impractical and limiting the face/head composition, cheek, and jawline comparisons.</p> <p>B3 is poor quality, extremely grainy and has poor resolution/focus. The subject is a female of European descent of indeterminate age. The pose is face forward (portrait), eyes open, mouth open (dentition exposed), head yawed and rolled slightly to the right.</p> <p>D7 is average quality with issues due primarily to loss of resolution due to reproduction. The subject is a female of European descent, age undetermined. The pose is face forward (portrait), eyes open (wearing glasses obstructing the eyes, eyebrows, root of nose and cheekbones), mouth slightly open (dentition partially exposed), head yawed slightly to the right and pitched (tilted) slightly backwards.</p>
Skin	True color and texture are impractical to compare given B&W image color and overall poor image quality.
Face/Head Outline	Head coverings make comparison impractical.
Face/Head Composition	A complete comparison of the face/head composition is not able to be completed due to the head coverings. However, the eyes, nose and mouth appear similar on the placement on the face relative to one another.
Hair	Head coverings make comparison impractical.

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Forehead	Foreheads in B3 and D7 are partially obscured due to head covering but what is visible is consistent in both images.
Eyebrows	Asymmetry of eyebrows at the medial appears consistent in both images. Distance between the medial ends of eyebrows is consistent. Subject in D7 is wearing eyeglasses, partially obscuring eyebrows for further comparisons. Arch and contour of right eyebrow is consistent in both images.
Eyes	Due to the poor quality of both images, many of the details of the eyes are not comparable. The superior palpebral creases and upper eyelids in both subjects are consistent and the overall fissure shape and size are similar.
Cheeks	The head covering prevents a complete comparison of the cheeks as it obstructs the lateral sides of the cheeks. However, what is visible is similar in size, shape, contour, and zygomatic bone on the cheeks.
Nose	Nasal body, shape, structure, and slope appears similar but tip of nose in D7 appears fuller (could be attributed to significant age difference). Alar crease on left side of D7 nose is more pronounced than in B3. Poor image quality/shadow in B3 makes additional comparisons impractical. The root of the nose is unable to be compared due to glasses on D7.
Ears	Head coverings/hair make comparison impractical.
Mouth	Extreme differences in dentition between B3 and D7. B3 exhibits very poor dental alignment and consistency. Noted difference in dentition exhibited in D7 could be existence of dentures. Expression in C4 is more subdued/softer. Upper lips exhibit similar fullness. Thinner lower lip in D7 could be attributable to difference in age, pose and expression. The size of the philtrum area appears similar. Mentolabial sulcus is more visible in B3 than in D7 (lighting/expression differences?).
Chin/Jawline	Both subjects have a full/strong jawline. Both subjects have a prominent chin. Chin in D7 appears "squarer" than in B3 (jawline in B3 is much more obscured due to head covering and difference in pose/head position).
Neck	Due to clothing, the neck is not comparable.
Facial Hair	None visible in either image.
Facial Lines	B3 and D7 both exhibits notable similar nasolabial folds and inferior palpebral creases.
Scars	None visible in either image.
Facial Marks	None visible in either image.
Alterations	None visible in either image.

#### **Results B3 to D7:**

There is currently no standard conclusion scale for face comparisons. The following scale was used in this comparison:

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

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After comparing exhibit A11 to exhibit B10, the determination is that the probe image has observations that support to some extent that it is the same person (+1).

DRAFT

### C3 to D14 (with mark-up)



Overall Image Quality	<p>Notable difference in age but apparently same gender. C3 is a B&amp;W photo and the image quality is poor (grainy, poor focus/resolution). D14 is in color and the image quality is below average (poor resolution). Both subjects have some form of head covering and clothing, making face/head outline, hair, ear, and neck comparisons impractical and limiting the face/head composition, cheek, and jawline comparisons.</p> <p>C3 is poor quality primarily due to poor resolution/focus and slight over-exposure. The subject is a female of European descent, age undetermined. The pose is face forward (portrait) yawed slightly to the left, eyes open, mouth slightly open (dentition partially exposed).</p> <p>D14 image quality issues are primarily the result of poor resolution post reproduction. The subject is a female of European descent, age undetermined. The pose is face forward (portrait) yawed slightly to the left, head pitched slightly backwards, eyes open, mouth closed in a neutral expression.</p>
Skin	True color and texture are impractical to compare given B&W image color and overall poor image quality.
Face/Head Outline	Head coverings make comparison impractical.

Face/Head Composition	A complete comparison of the face/head composition is not able to be completed due to the head coverings. However, the eyes, nose and mouth appear similar on the placement on the face relative to one another.
Hair	Head coverings make comparison impractical.
Forehead	Foreheads in C3 and D14 are partially obscured due to head covering but what is visible is consistent in both images. Brow ridge in D14 is more noticeable than in C3 (exposure/image quality differences?).
Eyebrows	Eyebrows are fuller in D14 than in C3 (difference in age) with both following similar contours/arch. Distance between the medial ends of eyebrows is consistent in both images. Slight asymmetry (left eyebrow is raised slightly higher than the right) in both images. There is more space between the superior fissure of the eyes and the eyebrow on C3 than on D14.
Eyes	Due to the poor quality of C3, the minute details of the eyes are not comparable however, the superior and inferior palpebral creases over and under the eyes of both subjects are consistent and the intercanthal distance is similar. The eye fissures are consistent in shape/contour, but the size appears smaller/more closed due to age or expression. The upper eyelid/periorbital eyelid appears dissimilar in size which can be attributed to age differences.
Cheeks	The head covering prevents a complete comparison of the cheeks as it obstructs the lateral sides of the cheeks. However, what is visible is similar in size, shape, contour, and zygomatic bone on the cheeks.
Nose	C3 and D14 noses appear similar in length, shape, slope, and structure. Thickness of columella and fullness/structure of alae is consistent in both images. The root appears similar as does the tip and base.
Ears	Head coverings/hair make comparison impractical.
Mouth	Shape and contour of the mouth fissure as is the commissure lines at the corner of the mouth are consistent in both images despite differences in expression (mouth slightly open in C3). The size/shape of philtrum is similar.
Chin/Jawline	Both subjects have a full/strong jawline. Both subjects have a prominent chin. Both subjects have a similarly shaped prominent chin. Artifact/mark on right side of chin in C3, not visible in D14.
Neck	Due to clothing, the neck is not comparable.
Facial Hair	None visible in either image.
Facial Lines	Both C3 and D14 exhibits notable nasolabial folds. D14 has a pronounced mentolabial sulcus under the lower lip that is not as noticeable in C3 (could be due to expression/image exposure differences).
Scars	None visible in either image.
Facial Marks	None visible in either image.
Alterations	None visible in either image.

### **Results C3 to D14:**

There is currently no standard conclusion scale for face comparisons. The following scale was used in this comparison:

+3: The observations strongly support that it is the same person

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- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

After comparing the exhibit C3 to exhibit D14, the determination is that the probe image has observations that support that it is the same person (+2).

**Additional Information:** The original images of the subjects were not provided. Should they ever become available additional, more confirmatory comparisons could be conducted.

Based on the comparisons completed above, subject A can be linked to subject B, subject B can be linked to subject C, and subject C can be linked to subject D. To recap the progression of the comparison results, the following images and results have been shared here:

A11/B10



After comparing the A11 image to the B10 image, the determination is that the probe image has observations that support to some extent that it is the same person (+1).

A13/B12



After comparing exhibit A13 to exhibit B12, the determination is that the probe image has observations that there is some support that it is the same person (+1).

B13/C4



After comparing exhibit B13 to exhibit C4, the determination is that the probe image has observations that support to some extent that it is the same person (+1).

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C3/D14



After comparing the exhibit C3 to exhibit D14, the determination is that the probe image has observations that support that it is the same person (+2).

Based on the progression from subject A to D, the overall observations support to some extent that it is the same person (+1).

August 18, 2021

ADDENDUM: After a teleconference with [REDACTED] et al. it was determined that there were other images available for comparison that weren't originally included [REDACTED]. We were also informed that there was no need to compare exhibits from A to B nor from C to D. Five additional images were selected for further analysis; exhibits B1, B6, C1, C2, and D14. Because of pose similarities, B6 was compared to C1 and B1 was compared to D14. Because of quality of the images, B1 was also compared to C2.

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B6 to C1



B6 to C1 with mark-up

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Overall Image Quality	<p>Notable difference in age but apparently same gender. C1 and B6 are B&amp;W photos and the image quality in C1 is above average while the quality in B6 is poor (grainy, poor focus/resolution). Both subjects have some form of head covering and clothing, making face/head outline, hair, ear, and neck comparisons impractical and limiting the face/head composition, cheek, and jawline comparisons.</p> <p>B6 is poor quality primarily due to poor resolution/focus and slight over-exposure. The subject is a female of European descent, age undetermined. The pose is face forward (portrait) yawed slightly to the left and pitched slightly backwards, eyes open, mouth slightly open (dentition partially exposed).</p> <p>C1 subject is a female of European descent, age undetermined. The pose is face forward (portrait), eyes open, mouth slightly open (dentition partially exposed) in a neutral expression.</p>
Skin	True color and texture are impractical to compare given B&W image color and overall poor image quality.
Face/Head Outline	Head coverings make comparison impractical.
Face/Head Composition	A complete comparison of the face/head composition is not able to be completed due to the head coverings. However, the eyes, nose and mouth appear similar on the placement on the face relative to one another.
Hair	Head coverings make comparison impractical.
Forehead	Foreheads in C1 and B6 are partially obscured due to head covering but what is visible is consistent in both images.
Eyebrows	Eyebrow fullness is consistent in both images with some discoloration in C1 (graying?). Both following similar contours/arch. Distance between the medial ends of eyebrows is consistent in both images. Slight asymmetry (left eyebrow is raised slightly higher than the right) in both images.
Eyes	Due to the poor quality of C3, the minute details of the eyes are not comparable however, the superior and inferior palpebral creases over and under the eyes of both subjects are consistent and the intercanthal distance is similar. The eye fissures are consistent in shape/contour.
Cheeks	The head covering prevents a complete comparison of the cheeks as it obstructs the lateral sides of the cheeks. However, what is visible is similar in size, shape, contour, and zygomatic bone on the cheeks.
Nose	C1 and B6 noses appear similar in length, shape, slope, and structure with the tip of the nose being fuller and drooping slightly due to age differences. Thickness of columella and fullness/structure of alae is consistent in both images.
Ears	Head coverings/hair make comparison impractical.
Mouth	Shape and contour of the mouth fissure as the commissure lines at the corner of the mouth are consistent in both images. Differences in distance between mouth fissure and base of nose in C1 and B6 could be attributed to breakdown in bone structure of the maxilla in C1 (believed subject in C1 has had dentures for a long period of time).
Chin/Jawline	Both subjects have a full/strong jawline. Both subjects have a prominent and a similarly shaped chin.

Neck	Due to clothing, the neck is not comparable.
Facial Hair	None visible in either image.
Facial Lines	Nasolabial folds are more prominent in C1 vs. B6. Can be attributed to significant difference in age.
Scars	None visible in either image.
Facial Marks	None visible in either image.
Alterations	None visible in either image.

**Results B6 to C1:**

There is currently no standard conclusion scale for face comparisons. The following scale was used in this comparison:

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

After comparing the exhibit C1 to exhibit B6, the determination is that the probe image has observations that neither that it is the same person nor that it is different persons (0).



**B1 to C2**

Overall Image Quality	<p>Notable difference in age but apparently same gender. B1 and C2 are B&amp;W photos and the image quality in C2 is of decent quality while the quality in B6 is poor (grainy, poor focus/resolution). Both subjects have some form of head covering and clothing, making face/head outline, hair, ear, and neck comparisons impractical and limiting the face/head composition, cheek, and jawline comparisons.</p> <p>B1 is poor quality primarily due to poor resolution/focus and slight over-exposure. The subject is a female of European descent, age undetermined. The pose is face forward (portrait) yawed slightly to the left and pitched slightly backwards, eyes open, mouth slightly open.</p> <p>C2 subject is a female of European descent, age undetermined. The pose is face forward (portrait) yawed slightly to the right, the camera appears slightly above the subject, eyes open, and mouth slightly open (dentition partially exposed) in a neutral expression.</p>
Skin	It is difficult to tell texture of the skin due to the quality of the images. The B&W color of the images make it difficult to compare the color and tone of the skin. Both appear to have lighter color of skin.
Face/Head Outline	Head coverings make comparison impractical.
Face/Head Composition	A complete comparison of the face/head composition is not able to be completed due to the head coverings. However, the eyes, nose and mouth appear similar on the placement on the face relative to one another.

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Hair	Head coverings make comparison impractical.
Forehead	Foreheads in C1 and B6 are partially obscured due to head covering. The portion of the brow ridge that is visible appears similar in prominence and continuity.
Eyebrows	There is a similar spacing between the eyebrows. B1 appears to have fuller (less sparse) hair in the eyebrows than C2. The medial edge of the eyebrows appears to start in similar location relative to the medial canthi of both B1 & C2. The head covering obstructs the lateral edge of B1 eyebrows. The spacing from the inferior edge of the eyebrows to the superior edge of the fissure appears dissimilar between B1 & C2. The shape of the R eyebrow appears somewhat similar, but the L eyebrow shape appears dissimilar on the superior edge. C2 appears to have a peak in the center of the brow which is not visible on B1 (but could be obstructed by the head covering)
Eyes	The intercanthal distance appears slightly dissimilar (possibly due to the change in yaw). The shape of the eyes appears dissimilar with B1 appearing rounder and C2 appearing more almond shaped. The iris to sclera ratio appears similar in both images. True color of the iris cannot be compared but both appear to have darker colored irises. The superior palpebral creases appear similar in shape with some dissimilarity in the R eye of B1 which may be caused by pitch change of B1. The inferior palpebral creases of C2 are more visible and prominent than on B1. The set of the eyes under the brow ridge on B1 appears a little deeper than C2.
Cheeks	The head covering prevents a complete comparison of the cheeks as it obstructs the lateral sides of the cheeks. However, what is visible is somewhat similar in size, shape, contour, and zygomatic bone on the cheeks. C2 appears to have slightly fuller cheeks (may be due to weight difference) with the nasolabial folds being more prominent on C2 than B1.
Nose	The root of the nose appears more prominent on B1 (could be due to change in pose, lighting, and quality). The overall length of the body/bridge appears similar. The tip appears different in size. B1 appears to be more tilted/pitched up at the tip than C2 but there is a pitch change between the two images. The nostril size/shape is dissimilar (could be due to pose changes). The L alae are not able to be fully compared due to the change in pose. The R alae appears similar in size/shape. The width of the base of the nose appears similar.
Ears	Head coverings/hair make comparison impractical.
Mouth	The lips of C2 appear thinner (possibly due to aging). The philtrum appears similar in length and shape. The size of the mouth relative to the size of the chin appears similar. The fissure of the mouth appears dissimilar but there is an expression difference between the two images.
Chin/Jawline	The jawline cannot be compared due to the obstruction of the head covering. The size/shape of the chin appears similar.
Neck	Due to clothing, the neck is not comparable.
Facial Hair	None visible in either image.
Facial Lines	The shape and prominence of the nasolabial folds appears dissimilar (possibly due to the expression and fullness of C2 cheeks). The placement of the nasolabial folds between the mouth, nose, and cheeks appears similar.
Scars	None visible in either image.
Facial Marks	None visible in either image.

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Alterations	None visible in either image.
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**Results B1 to C2:**

There is currently no standard conclusion scale for face comparisons. The following scale was used in this comparison:

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

After comparing the exhibit B1 to exhibit C2, the determination is that the probe image has observations that support neither that it is the same person nor that it is different persons (0).



**B1 to D14**

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**B1 to D14 with mark-up**

Overall Image Quality	<p>Notable difference in age but apparently same gender D14 is a color photo and B1 is a B&amp;W photo. The image quality in both photos is marginal (focus, resolution, graininess). A perspective difference between the two photos is visible as well with D14 closer to the camera than B1. Both subjects have some form of head covering and clothing, making face/head outline, hair, ear, and neck comparisons impractical and limiting the face/head composition, cheek, and jawline comparisons.</p> <p>D14 image quality is marginal primarily due resolution, shadowing, focus issues. D14 subject is a female of European descent, age undetermined. The pose is face forward (portrait) yawed slightly to the left, rolled slightly to the right, eyes open, mouth closed, somewhat neutral expression (slight downturn of the mouth).</p> <p>B1 is poor quality primarily due to poor resolution/focus. The subject is a female of European descent, age undetermined. The pose is face forward (portrait) yawed slightly to the left and pitched slightly backwards, eyes open, mouth mostly closed, somewhat neutral expression (mouth is slightly open).</p>
Skin	Due to the color differences in the images, the true color/tone cannot be compared but both exhibit light colored skin. The texture of the skin cannot be compared either due to the quality of the images.
Face/Head Outline	Head coverings make comparison impractical.

Face/Head Composition	A complete comparison of the face/head composition is not able to be completed due to the head coverings. However, the eyes, nose and mouth appear similar on the placement on the face relative to one another.
Hair	Head coverings make comparison impractical.
Forehead	Foreheads in D14 and B1 are partially obscured due to head covering. The brow ridge that is visible appears more prominent on D14.
Eyebrows	Eyebrows in D14 appear fuller than in B1 (age differences?). Both following similar contours/arch. Distance between the medial ends of eyebrows is consistent in both images. The medial edge of the eyebrows appears to start in similar location relative to the medial canthi of both B1 & D14. The head covering obstructs the lateral edge of B1 eyebrows. The spacing from the inferior edge of the eyebrows to the superior edge of the fissure appears similar between B1 & D14. Slight asymmetry (left eyebrow is raised slightly higher than the right) in B1. Notable similarity in the medial end of the right eyebrow in both images. The shape of the eyebrows appears dissimilar with D14 having thicker medial portions than B1.
Eyes	Due to the poor quality and shadow, the minute details of the eyes are not comparable however, the superior and inferior palpebral creases over and under the eyes of both subjects are consistent (when aging is considered) and the intercanthal distance is similar. The intercanthal distance appears similar. The shape of the eyes appears dissimilar with B1 appearing more round than D14. D14 has prominent inferior palpebral crease. The fissure is dissimilar (may be due to aging). Unable to see the iris in D14.
Cheeks	The head covering prevents a complete comparison of the cheeks as it obstructs the lateral sides of the cheeks. However, what is visible is similar in size, shape, contour, and zygomatic bone on the cheeks. D14 image displays much more of the cheeks than B1. The cheeks of D14 are fuller than B1 (attributed to age/weight differences). The nasolabial folds are more prominent in D14 (may be due to aging and weight differences).
Nose	D14 and B1 noses appear similar in length, shape, slope, and structure with the tip of the nose being fuller and drooping slightly due to age differences. Tip and alae fullness in D14 is more pronounced but consistent with changes over time (age related). The root of the nose appears larger on D14. The base of the nose appears wider on the D14. The pitch on the tip of the nose appears similar. The nostrils appear similar in placement and size. The alae of D14 appear larger than B1. The columella appears to droop more on D14 than B1.
Ears	Head coverings/hair make comparison impractical.
Mouth	Shape and contour of the mouth fissure as is the commissure lines at the corner of the mouth are consistent in both images. Differences in distance between mouth fissure and base of nose (philtrum) in D14 and B1 could be attributed to breakdown in bone structure of the maxilla in D14 (believed subject in D14 has had dentures for a long period of time). The lips of D14 appear thinner (possibly due to aging). The commissure lines blend into the marionette lines on D14 giving the appearance of a wider mouth.
Chin/Jawline	Both subjects have a prominent and a similarly shaped chin with D14 having a slightly larger/more prominent chin (possibly due to age difference). The width appears similar. The mentolabial sulcus appears in a similar position but more prominent in B1.

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Neck	Due to clothing, the neck is not comparable.
Facial Hair	None visible in either image.
Facial Lines	Nasolabial folds are more prominent in D14 v. B1 which be attributed to significant difference in age, but the placement of the folds is similar and follow similar contours.
Scars	None visible in either image.
Facial Marks	None visible in either image.
Alterations	None visible in either image.

**Results B1 to D14:**

There is currently no standard conclusion scale for face comparisons. The following scale was used in this comparison:

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

After comparing the exhibit D14 to exhibit B6, the determination is that the probe image has observations support neither that it is the same person nor that it is different persons (0).

**Additional Information:** The original images of the subjects were not provided. Should they ever become available additional, more confirmatory comparisons could be conducted.