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5.0 VERIFYING AND REPORTING DNA MATCHES

5.1 General principles

- 5.1.1 Discovering and confirming "exact matches" and "partial matches", and making timely notifications, are among the highest priority tasks done in the Department of Forensic Biology. Any delays can result in additional crimes being committed that may have been preventable. For local matches, it is not necessary to have all analyses completed or reports written, just that the required data is available for review of the match.
- 5.1.2 Local exact matches between cases may result in the creation (or extension) of a DNA pattern. To consolidate the handling of related pattern cases, and to streamline any subsequent court testimony, a single analyst (wherever possible) should be assigned all cases in a pattern. Therefore, depending on the nature of the cases involved, a "new" case may be transferred to the analyst of the previous case(s). See Section 5.4.1- Local exact matches discovered by direct comparison or via LINKAGE or LDIS for additional information.
- 5.1.3 Partial matches are inadvertent "indirect matches" that suggest that the source of an evidentiary profile is potentially:
 - A relative of a suspect (suspect file)
 - A relative of another evidentiary profile (within a case or between two cases)
 - A relative of some other comparison sample (victim or elimination sample)
- 5.1.4 This is evaluated by comparing the number of shared alleles and/or loci, then calculating the full sibling likelihood ratios and/or the parent-offspring likelihood ratios using the CODIS Popstats application; and the EKR (expected kinship ratio) and EMR (expected match ratio) (see specific procedures below). The use of partial matches at the national level has been approved by the NDIS Board; however, participation is left up to each individual state. The use of partial matches at the state level has been approved by the New York State Commission on Forensic Science; participation is left up to each individual CODIS laboratory. With the availability of Familial Searching in the state of New York as of October 2017, OCME will no longer perform Partial Match evaluations on SDIS and NDIS offender search results.
- 5.1.5 Matches at the local level may occur at any time. Matches at the state level follow a weekly cycle. Matches at the national level follow a twice-weekly cycle.
- 5.1.6 For Missing and Unidentified Persons cases, discovering and confirming "exact matches" and "associations" are also among the highest priority tasks done in the Department of Forensic Biology.

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5.1.7	from relativ from a Miss	s are "indirect matches" that suggest that the referen es of Missing Persons in a pedigree tree) are potentis sing Person or Unidentified Human Remains. These ording to a joint pedigree likelihood ratio.	ally related to profiles
5.1.8	and nationa Additional	Missing persons matches in CODIS may occur at any time at the local level. At the st and national level, matches follow a one month cycle set by NY State and/or the FBI. Additional searches such as those with mitochondrial DNA only are done as scheduled by NY State and the FBI (typically, quarterly).	
5.2	DNA HI	TS application	V
5.2.1	web-based dissemination is unavailab	y of DNA exact match and partial match notification DNA HITS application. This application allows for on of matches to the NYPD and the District Attorney le for > 24 hours, or a particular functionality is una le using a Notification Letter; follow up with DNA H ailable.	quick e-mail y's offices. If DNA HIT vailable, notifications
5.2.2	is sent via e remains fro NYPD Miss	NA HITS is not used for Missing and Unidentified Persons Cases. A notification lett sent via email to notify all involved parties of the match. For matches with unidentifi mains from NYC OCME, the assigned Medical Examiner, Identification Unit, and YPD Missing Persons are always notified. Matches involving outside jurisdictions wi e sent to that jurisdiction's designee(s).	
5.2.3	HITS. If us	YPD designee(s) and the appropriate DAO's designed ing DNA HITS, do not also notify Detectives or AD, their superiors and/or the NYPD's electronic case mat	A's directly - they will b
5.2.4	users. Case interpreting and can ent certain COI	f lab management have privileges in DNA HITS to a analysts have varying levels of privileges within the analysts plus certain clerical and CODIS staff member match information. Supervisors, technical review. DIS staff members have approval privileges for match notification until it has been approved.	e program. All bers have login privilege ers, management and
5.3	Method	of notification	
5.3.1	The existence of an exact match is disseminated via the Department of Forensic Biolog report, via DNA HITS, or both. The method depends on the type of match ("cold" vs. "warm"), the level (local, state, national), or the type of comparison (exact vs. partial). "Cold hit" means no one thought the cases (or suspect) were linked previously. "Warn hits" are the opposite: the cases were previously thought to have been linked, and DNA is simply confirming this.		

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5.3.2	In general, match notifications made via DNA HITS are app have a clean, informative forensic autosomal DNA profile (attributable to a putative perpetrator. In addition, partial ma to such profiles with ≥ 10 CODIS core loci with no Z's, INC mixture.	single-source or deduced) ttch notifications are limited
5.3.3	Associations solely to non-deconvoluted mixtures or solely described in the reports, not via DNA HITS.	to Y STR results are
5.3.4	Notification via DNA HITS is necessary for the following t	ypes of matches:
5.3.4.1	Local matches:	
	 Cold hits between cases Warm hits between cases Partial matches between cases Cold hits between a case and a suspect (exemplar or pseud Warm hits between a case and a suspect (exemplar or pseud Partial matches between a case and a named suspect or arree exemplar) 	do-exemplar)
5.3.4.1.1	Suspect samples for which a protective order has been receinentry into LDIS, that prohibits comparison to the local datale other than one specific case SHOULD have a DNA HIT iss confirmed match to that (and only that) evidence profile. The searched against, or added to, LDIS, however.	base or any other samples ued in the instance of a
5.3.4.2	State or national matches:	
	 Matches between a case and an offender Matches between an OCME case and a case in another laboration. 	oratory
5.3.5	Notification via DNA HITS is not necessary for the following	ng type of matches:
5.3.5.1	Partial matches within a case	
5.3.5.2	Direct matches between state/national offenders or locally-t abandonment) that match forensic profiles for cases in whic named victim, homeowner, or witness in that case. Additio must then be removed from the database as it no longer elig	h they are revealed to be the nally, the evidence profile
5.3.6	The report (evidence report or suspect report) will contain in matches and/or partial matches.	nformation on all local exact

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5.3.7 DNA HITS is not used for Missing and Unidentified Persons cases. Match notifications are made via a Forensic Biology Report and Notification Letter.

5.4 Verifying and reporting exact matches

- 5.4.1 Local exact matches discovered by direct comparison or via LINKAGE or LDIS
- 5.4.1.1 The analyst of the "new" case has to request the "previous" case(s) if they do not exist in LIMS (pre-LIMS case file). Confirm the exact match by comparing the appropriate DNA profiles. Review the matching cases.

For a case-to-case match, compare the information available in the files: precinct, location of occurrence, description of assailant, details of the assault, etc. If any 61 forms are missing, have a supervisor arrange to get a copy. (This step is not required for NYPD project cases. If any of the information in the 61 forms seems inconsistent, discuss with your supervisor or technical reviewer.)

For case-to-case matches, determine whether the matching samples were processed together:

- Evidence exam on the same date and/or by the same analyst?
- DNA extraction and/or amplification worksheet with the same date and time?

If so, see your supervisor or technical reviewer and Assistant Director immediately.

For case-to-case matches between similar case types (e.g. Property Crime to Property Crime) or disparate case types (Homicide to Property Crime), it is a possibility that a member of law enforcement is the source of the DNA. Therefore, the following should also be determined based on paperwork in the file:

- Was the evidence in both cases collected by the same Crime Scene Unit or Evidence Collection Team member?
- Was the evidence in both cases processed by the same NYPD laboratory Criminalist?

If so, see your supervisor or technical reviewer and Assistant Director immediately. Conversations with NYPD and/or the relevant District Attorney's office(s) may need to be held in order to procure elimination samples from potentially-involved personnel. Although an elimination sample from potentially-involved personnel may have been requested, the case analyst should wait for procurement and typing of the requested sample before issuing the report and/or entering a DNA HIT for match notification. The case analyst and/or their supervisor should follow up on procurement of the elimination sample at least every 30 days.

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Any specimen found to match a profile in Lab Types shall not be entered into LDIS; if the link to a Lab Types specimen is found after the sample has been entered and/or uploaded, the specimen must be removed from the database system.

Once it has been ruled out that a member of law enforcement could be the source of the DNA, continue the process.

5.4.1.2 Determine if the match is a cold hit or a warm hit.

Use information in LIMS and/or the physical case file to determine if a previous connection between the cases and/or subjects existed. This can include, but is not limited to, having the same listed suspect, the same complaint number and/or a previous offender match to the named suspect. If a previous connection was not evident, then the match is a cold hit.

In the event an analyst suspects there is a cold hit between the "new" case and a previous case or pattern, between the "new" case and a suspect file, or between the "new" case and a Lab Types specimen, the analyst's direct supervisor will be notified immediately.

- 5.4.1.3 Expedite additional testing, if necessary, to determine if you have a true match or a fortuitous match. Additional testing includes any duplication needed to satisfy the concordance policy. Since the "new" case may be transferred per section 5.4.1.5, the analyst who discovered the match and their supervisor will determine who is in the best position to conduct this additional testing in a timely fashion. Once you have confirmed the exact match, continue the process.
- 5.4.1.4 Determine if the "new" case will be transferred.

Use common sense when deciding on the transfer of a "new" case. Consider the nature of the crimes; the nature of the evidence items within the cases; the time frame of the crimes; and whether any appear to be previously solved via arrest, typing of a suspect, or an offender database match. Transfers should only take place when a logical pattern is created or added to. Having the same analyst for the purposes of testimony is helpful in these situations. Examples of situations where transfer makes sense might include:

- A 2016 sexual assault case matching a 2010 sexual assault case.
- A 2017 burglary case matching a 2014 robbery case.
- A 2016 robbery matching a 2013 sexual assault (where case facts are similar)

If there is no logical pattern or relationship between the cases, no transfer of the "new" case is necessary. Examples might include:

- A 2016 burglary case matching a solved 2000 homicide case.
- A 2017 sexual assault case matching a 2011 auto theft case.
- A 2016 robbery matching a 2011 sexual assault (where case facts are different)

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A transfer is NOT necessary if a "new" case is solely matching a previous suspect file. The analyst of the "new" case retains that case and will have the previous suspect file transferred to him/her. The analyst of the "new" case is responsible for reporting the newly discovered match in an additional suspect report. As appropriate, have a supervisor update records to reflect the new case assignment.

5.4.1.5 Make the Match Notification(s)

If the match is determined to be a cold hit, the analyst who discovered the match(es) and their supervisor are the ones responsible for entering and approving the match(es) in DNA HITS using the procedure in section <u>5.6 Making notifications using DNA HITS</u>.

After entering the match(es), the analyst who discovered it will give the file to their supervisor to review and issue the match notification in a timely fashion.

If the "new" case will be transferred per section 5.4.1.4, contact the analyst receiving the case and their supervisor to inform them of a cold hit. After the match notification has been issued, transfer the file to the receiving analyst.

If the new case will not be transferred, the discovering analyst will write the associated report.

If the match is determined to be a warm hit, the analyst who will ultimately write the report detailing the match is the one responsible for entering the match(es) into DNA HITS using the procedure in section 5.6 Making notifications using DNA HITS. If the "new" case will be transferred per section 5.4.1.5, contact the receiving analyst and their supervisor to inform them of a warm hit. The receiving analyst will write the associated report and submit the file for technical review via the current laboratory production system. If the new case will not be transferred, the discovering analyst will write the associated report and submit the file for technical review via the current laboratory production system.

The technical reviewer who is responsible for reviewing the report and match notification, whether the case has been transferred or not, will review the DNA HITS match(es) by using the procedure in section <u>5.6 Making notifications using DNA HITS</u>.

- 5.4.2 Verifying and reporting SDIS exact matches
- 5.4.2.1 With DNA matches identified at SDIS, both laboratories involved in the match have confirmation responsibilities. All matches will be resolved by the CODIS staff, with the exception of Low Copy Number samples and certain identity searches performed and scheduled by NYS.
- 5.4.2.2 Responses to all candidate matches must be immediate. The final disposition of the candidate match to the SDIS custodian must be reported no later than 30 business days after receiving the match report.

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5.4.2.3 General Process

The CODIS staff will print out the Candidate Match Detail Reports from the CODIS system along with a Match Inventory list (a summary list of all the cases involved in the candidate matches) and obtain the corresponding files.

Each candidate match report and corresponding file or LIMS case record must be reviewed to confirm whether or not the two profiles indeed match. The analyst reviewing the file must fill out a <u>Candidate Match Confirmation Checklist</u> if the match is found to be true.

If any modifications to the DNA profile are needed, a Profile Modification Form must be filled out by the Interpreting Analyst or the analyst reviewing the data (see section 4.6), and submitted to the CODIS group. It is not necessary to wait for the profile to be modified to continue in the confirmation process.

- 5.4.3 Verifying and reporting SDIS offender exact matches
- 5.4.3.1 If the profiles are an exact match, complete a <u>NYS DNA Databank Candidate Match</u> <u>Confirmation Form</u>. This form communicates to DCJS and the Databank coordinator the case information, and that the candidate match is, in fact, a true match. Therefore, one NYS DNA Databank Candidate Match Confirmation Form for every confirmed candidate match listed on the Match Inventory must be completed. (For those cases matching an offender in SDIS but also matching a sample in LDIS that has previously hit the same offender at SDIS, the form can be omitted, as DCJS will not issue a new letter.) The NYS DNA Databank Candidate Match Confirmation Form is then transmitted to DCJS by fax or other electronic means.
- 5.4.3.2 Upon receipt of the NYS DNA Databank Candidate Match Confirmation Forms from our laboratory, and upon receipt of confirmation of the offender sample from the NYS DNA Databank coordinator, DCJS will release the offender's name, in the form of a DCJS Match Letter (see the current version of the *New York State COmbined DNA Index System Procedures*). This letter will contain the name of the offender, any aliases, the NYSID number and offender's current location.
- 5.4.3.3 Enter the match(es) into DNA HITS using the procedure in section <u>5.6 Making</u> notifications using DNA HITS
- 5.4.3.4 If the confirmed match has linked an offender to an unsolved case, the investigating agency generally obtains an exemplar from the offender and submits to the laboratory for retesting prior to proceeding to trial. This requirement is located on the DCJS Match Letter that is available to the District Attorneys' offices upon request.
- 5.4.3.5 The DCJS Match Letter should be used by the DAO to obtain the court order authorizing the collection of the exemplar. The Department of Forensic Biology will perform testing

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on the exemplar to replicate the DNA match of the offender to the forensic sample(s) and to testify in court to the match. Questions from the DAO regarding offender information, offender blood draws, etc. should be directed to DCJS. Analysis of the exemplar by Forensic Biology is generally not necessary for grand jury proceedings. This analysis, however, is necessary before trial.

- 5.4.4 Verifying and reporting SDIS forensic exact matches
- 5.4.4.1 After the data is reviewed, the other laboratory involved in the match must then be notified via fax or email and the match verified. Both laboratory's case numbers and ORI numbers are on the Match Detail Report and on the Match Inventory list. The contact information for all CODIS laboratories can be found on the CJIS-WAN. Standard case contact protocol should be followed to document any correspondence or conversations.
- 5.4.4.2 If it is determined the candidate match is a non-match, the process stops here. All case contacts should be documented on the checklist accordingly.
- 5.4.4.3 If it is verified to be a true match, information regarding the cases must be exchanged. The CODIS DNA Match Data Request and Response Form is transmitted to the other laboratory by fax or other electronic means. This form facilitates the exchange of information. Information on this form, if available, should include:
 - Contact information for the submitting police agency.
 - Contact information for the laboratory.
 - Laboratory and police identification numbers (Forensic Biology and complaint numbers).
 - Whether the case is solved (i.e. by DNA).
 - Suspect information (for example, name, NYSID number, has he/she been tested at our lab, etc.).
 - General case information (for example, date of occurrence, type of crime, etc.)
 - If the case with the match at SDIS is one of a local pattern, information regarding both/all should be provided to the other laboratory.
- 5.4.4.4 Upon receipt of the response from the other laboratory, the match is confirmed. This form documents that the candidate match between the two laboratories was acknowledged, each laboratory has finished their review process, both laboratories are confirming the match and that case information has been exchanged.
- 5.4.4.5 Enter the match(es) into DNA HITS using the procedure in section <u>5.6 Making</u> notifications using DNA HITS
- 5.4.5 Verifying and reporting NDIS exact matches
- 5.4.5.1 With DNA matches identified at NDIS, both laboratories involved in the match have confirmation responsibilities. All NDIS matches will be resolved by the CODIS staff.

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5.4.5.2	Responses t match to the	o all candidate matches must be timely. The fin NDIS custodian must be reported no later than e match report.	al disposition of the candida
5.4.5.3	General Pro	cess	
	system alon candidate m	staff will print out the Candidate Match Detail I g with a Match Inventory list (a summary list of atches) and obtain the corresponding files. The te the magnets for the CODIS group's Lean Six	all the cases involved in the Match Inventory list is also
	reviewed to	ate match report and corresponding file or LIMS confirm whether or not the two profiles indeed t fill out a <u>Candidate Match Confirmation Check</u>	match. The analyst reviewi
	filled out by and submitte	fications to the DNA profile are needed, a Profil the Interpreting Analyst or the analyst reviewin ed to the CODIS group. It is not necessary to we continue in the confirmation process.	ng the data (see section 4.6),
	at or near th has two (or one of the ca selection).	has a national offender candidate match and a state e same time, allow the state confirmation process more) national offender candidate matches at or andidate matches to proceed first (see the CODI Once one of the candidate matches has been vert rained, process the remaining candidate matches	ss to proceed first. If a prof near the same time, select S supervisor for guidance o ified and the name of the
5.4.6	Verifying and reporting NDIS offender exact matches		
5.4.6.1	notified via numbers and all CODIS 1	ta is reviewed, the other laboratory involved in t telephone, fax or email and the match verified. d ORI numbers are on the Match Inventory list. aboratories can be found on the CJIS-WAN. Sta- illowed to document any correspondence or com-	Both laboratories' case The contact information fo andard case contact protoco
5.4.6.2	CODIS soft	determined the candidate match is a non-match, the match is dispositoned in a IS software as "no match" and the process stops here. All case contacts should nented on the checklist accordingly.	
5.4.6.3	The CODIS laboratory b	ed to be a true match, information regarding the DNA Match Data Request and Response Form y fax or other electronic means. This form facil . Information on this form, if available, should i	is transmitted to the offend litates the exchange of

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5.4.6.4	 Contact inf Laboratory number, etc Whether th Suspect inf lab, etc.). General case both/all show 	Formation for the laboratory. and police identification numbers (for example, ca	se number, complaint he/she been tested at our pe of crime, etc.). formation regarding pect if the case is solved,
5.4.6.5	laboratory, a match is cor via fax, in th	t of the CODIS DNA Match Data Request and Res and upon the offender laboratory's confirmation of firmed. The offender laboratory will release the co he form of a match letter. This letter will contain the the State ID #, current location, and sometimes an I hber.	the offender sample, the onvicted offender's name, he name of the offender,
5.4.6.6		atch(es) into DNA HITS using the procedure in sec	tion <u>5.6 Making</u>
5.4.6.7	agency mus retesting pri is forwarded	med match has linked an offender to an unsolved ca t obtain an exemplar from the offender and submit or to proceeding to trial. This requirement is locate t to the District Attorney's office upon request. The DAO to obtain the court order authorizing the colle	to the laboratory for ed on the match letter that e match letter should be
5.4.6.8	DNA match Questions fr should be di Data Reques Forensic Bio	nent of Forensic Biology will perform testing on the of the offender to the forensic sample(s) and to tes om the DAO regarding offender information, offen rected to the agency contact information given on t st and Response form. Analysis of the exemplar by plogy is generally not necessary for grand jury proc necessary before trial.	tify in court to the match. der blood draws, etc. he CODIS DNA Match the Department of
5.4.7	Verifying an	nd reporting NDIS forensic exact matches	
5.4.7.1	The CODIS staff will print out the Candidate Match Reports from the CODIS system along with a Match Inventory list (a summary list of all the cases involved in the candidate matches) and obtain the corresponding files.		

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5.4.7.2	Each candid reviewed to	ate match report and corresponding file or LIMS car confirm the profile data sent to NDIS is accurate. To out a <u>Candidate Match Confirmation checklist</u> .	ase record must be
5.4.7.3	filled out eit by the repor	ications to the DNA profile are needed, a Profile M her by the analyst reviewing the data (see section 4 ting analyst on that case, and submitted to the COE wait for the profile to be modified to continue in the	1.6), or for LIMS-era cases, DIS group. It is not
5.4.7.4	notified via numbers and all CODIS la	a is reviewed, the other laboratory involved in the telephone, fax or email and the match verified. Bo ORI numbers are on the Match Inventory list. The aboratories can be found on the CJIS-WAN. Stand llowed to document any correspondence or conver	th laboratory's case e contact information for lard case contact protocol
5.4.7.5	If it is determined the candidate match is a non-match, the process stops here. All case contacts should be documented on the checklist accordingly.		
5.4.7.6	The CODIS laboratory b	ed to be a true match, information regarding the cas DNA Match Data Request and Response Form is to y fax or other electronic means. This form facilitat Information on this form, if available, should incl	transmitted to the other tes the exchange of
		ormation for the submitting police agency. ormation for the laboratory.	
	number, etc		3 number, complaint
	 Suspect inf laboratory, 		
	• If the case	the information (for example, date of occurrence, type with the match at SDIS is one of a local pattern, into build be provided to the other laboratory.	
5.4.7.7	form docum acknowledg	t of the response from the other laboratory, the material ents that the candidate match between the two labored, each laboratory has finished their review process he match and that case information has been exchanged.	oratories was ss, both laboratories are
5.4.7.8		tch(es) into DNA HITS using the procedure in sec using DNA HITS	tion <u>5.6 Making</u>

5.5 Evaluating, verifying, and reporting partial matches

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5.5.1	General proce	SS	
5.5.1.1	forensic autos	procedures are applicable only to cases that omal DNA profile (single-source or deduced such profiles must have ≥ 10 CODIS core loc a mixture.	d) attributable to a putative
5.5.1.2	at each locus shared alleles for allele shar	es will be evaluated by a combination of obs (indicating a potential parent-offspring relati across all loci (indicating a potential full-sit ing and the likelihood ratios have been estab Evaluation Form.	ionship) and/or counting of bling relationship). Thresholds
5.5.1.3	between cases arrestee for th	evel, only partial matches between evidence (a) or partial matches between evidence samp (at case will be evaluated. <i>Any partial matche</i> <i>IKAGE or partial matches revealed by searchated</i> .	bles and a named suspect or hes revealed by comparing a
5.5.1.4	At the state an profiles will b	nd national levels, no partial matches to offer e evaluated.	nders or other labs' forensic
5.5.1.5	Pull the previ	ous case(s), if applicable.	
5.5.2	Local partial	natches	
5.5.2.1	Partial matche suspect file.	es may exist within a case, between two case	es, or between a case and a
5.5.2.2	Partial matche	es within a case	
	For example,	NA profiles within a case should be reviewe compare a victim or elimination sample to M nd C to each other.	
	evaluate the p flow chart be	n analyst believes there is an eligible partial rofiles. Using the <u>Partial Match Evaluation</u> ow, determine if the two profiles meet labor additional testing needed to satisfy the conco	Form and following the local ratory requirements. If so,
		d appropriate (i.e. both profiles are male), fu e. If a partial match is still a possibility, cor	
		of a partial match within a case is disseminated and required and requ	

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the evaluation of the profiles reveals that the thresholds for both a parent/child relationship AND full sibling relationship have been met, then both potential relationships shall be included in the report.

5.5.2.3 Partial matches between two cases

In the event an analyst believes there is an eligible partial match between two cases (found in LINKAGE or an LDIS search), the first step is to evaluate the profiles. Using the <u>Partial Match Evaluation Form</u> and following the local flow chart below, determine if the two profiles meet laboratory requirements. If so, expedite any additional testing needed to satisfy the concordance and duplication policies.

If possible and appropriate (i.e. both profiles are male), further testing using Y STRs should be done. If a partial match is still a possibility, continue the process.

The analyst and supervisor must then meet with the local CODIS administrator and/or CODIS manager to discuss the potential partial match. If appropriate, efforts will be made to determine the status of each case (solved vs. unsolved, arrests, etc.) or gain additional case information.

The existence of a partial match between cases is disseminated via DNA HITS. Enter the match(es) into DNA HITS using the procedure in section 5.6 Making notifications using DNA HITS

5.5.2.4 Partial matches between a case and a suspect (exemplar or pseudo-exemplar)

Partial matches involving the DNA profile of a suspect is limited to the case for which the person is a named suspect or arrestee.

In the event an analyst believes there is an eligible partial match, the first step is to evaluate the profiles. Using the <u>Partial Match Evaluation Form</u> and following the local flow chart below, determine if the two profiles meet laboratory requirements. If so, expedite any additional testing needed to satisfy the concordance and duplication policies.

If possible and appropriate (i.e. both profiles are male), further testing using Y STRs should be done. If a partial match is still a possibility, continue the process.

The existence of a partial match between a case and a suspect is disseminated via DNA HITS. Enter the match(es) into DNA HITS using the procedure in section <u>5.6 Making</u> notifications using DNA HITS

5.6 Making notifications using DNA HITS

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NOTE:	case-to-off <i>matches</i> m make refer	atch (case-to-case, case-to-suspect, case-to-known ender) is identified to a pattern that pre-dated DNA ust be entered into DNA HITS <i>prior</i> to the new ma ence to the previous match letters, including match the original notification.	A HITS, the <i>previous</i> atch. In the Notes section,
5.6.1		nternet, go to the DNA HITS program. The Domai your OCME user name and password.	n should show "OCME";
5.6.2		reate New Local Hit", "Create New State Hit" or " e upper right hand corner.	Create New National Hit"
5.6.3	select the co	rop-down menu, select the appropriate match type. prrect match type, since DNA HITS is being used f e local partial matches.	
	 to Subject (Partial) (F (Partial)). Choices fo (F-F(S)), a Choices fo 	r local match types include Forensic to Forensic (a (F-S), Forensic to Named Suspect/Arrestee (F-NSA F-F (Partial)), and Forensic to Named Suspect/Arrest r state match types include Forensic to Offender (F nd Forensic to Offender (Partial) (F-O (Partial)). r national match types include Forensic to Offende F-F(N)), and Forensic to Offender (Partial) (F-O (N	A), Forensic to Forensic stee (Partial) (F-NSA F-O), Forensic to Forensic er (F-O(N)), Forensic to
5.6.4	Enter the ca	se numbers for the new match and click on "Search	h".
NOTE:	be the new whose DN the CODIS to 2012, th	ations on a new case in an existing pattern, the two case and the first case of the pattern. The first case A profile is always represented in CODIS; see a su group if unsure which case is the first case. For ere may be profiles in the local pattern index that w S due to policies at that time.	e is generally the one pervisor or a member of "first cases" entered prior
5.6.5	local match reentered. '	rop-down menu, select the appropriate search type es). If this is not done, all the information will be l 'Direct match" can be used if a suspect came in for l not be entered into or searched via the databases.	lost and will have to be comparison to a given
		" between a case and a suspect are reported using t Arrestee" function within DNA HITS.	he "Case to Known
5.6.6	for that case	e cases was involved in a previous DNA HITS noti e will be populated automatically. If both cases are ed in yellow are required to be entered. In addition	e new to DNA HITS, all
Controlle	d versions of Der	partment of Forensic Biology Manuals only exist in the	Forensic Biology Qualtrax

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of occurrence, 61 number and the voucher number must be entered. The exceptions are PM samples (no voucher number); backlog project cases (no 61 number and sometimes no date of occurrence); and the occasional Biotracks or IAB case (no or partial 61 number).

NOTE: Be careful in using the drop-down menus; make sure what you select stays selected by moving the cursor off of the drop-down menu and clicking elsewhere to deactivate the drop-down.

Forensic Case - Fields that must be entered if present in case documentation:

- Search Type
- Match Type
- Forensic Lab # (twice)
- Specimen ID
- Gender
- Hospital (if applicable)
- Sample type
- Voucher
- Item #
- Storage number (applies to backlog rape cases only)
- Incident Date
- Case Type
- Full Complaint Number (add a leading zero to give 6 digits in the last segment)
- Borough
- Victim/Entity name
- Suspect info (if available)
- Assigned Criminalist (or tech reviewer, if criminalist is no longer at OCME)

Suspect/Offender Side - fields that must be entered if present in case documentation:

- Lab/Barcode/Offender ID (twice)
- Last Name
- First Name
- Complaint number
- NYSID or other state's ID number (add a leading zero to the NYSID if needed, to achieve the format 12345678L, so that the DNA HIT will be able to propagate into NYPD's ECMS system correctly)
- FBI #
- Voucher (for suspect samples)

Notes section:

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10/0	Statement reg This r	arding forensic sample being a mixed profile or p natch is to a xx-locus, partial, profile. natch is to a xx-locus, mixed, profile.	
		a comment in the notes section if the match is to if it was deconvoluted from a mixture.	a Forensic Unknown
5.6.7	drop-down lis use normal ca Tech1 review	inalist' section, if the analyst assigned (the IA for t, deselect 'Select' and manually type in the anal pitalization. If the analyst assigned to a case is n er or Tech2 reviewer, in that order of preference. sult CODIS staff or a supervisor regarding analy	yst's last and first names; to longer at the lab, list the Should neither of them be
5.6.8	Use the follow	'ES' section to indicate if the match is to a mixed ving language:	profile or a partial profile.
		s to a xx-locus, mixed, profile. s to a xx-locus, partial, profile.	
	national matcl prior related I	ation, such as additional victims/suspects or contained hes may also be indicated in NOTES. Do not inconstruction DNA HITS notification in the 'NOTES' section; to in the application and displayed when related mat	clude information about this information is already
5.6.9	"Get Approva	Approval". If any red error messages appear, find again. Once there are no errors, the screen with node and inform you that you have successfully e	ll return to the "Create
5.6.10	required). For	s reviewed by a technical reviewer (or two, if end r local matches, it is not necessary to have all and hat the required data is available for review of the	alyses completed or reports
	DNA HIT. N	reviewer must check all fields with information in Note: If a case had more than one CODIS profile ID field, as DNA HITS will select one which match.	, pay special attention to
	Forensic Case	e - Fields that must be entered if present in case d	ocumentation:
	 Search Type Match Type Forensic Lab Specimen ID Gender Hospital (if a 		

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- Sample type
- Voucher
- Item #
- Storage number (applies to backlog rape cases only)
- Incident Date
- Case Type
- Full Complaint Number (add a leading zero to give 6 digits in the last segment)
- Borough
- Victim/Entity name
- Suspect info (if available)
- Assigned Criminalist (or tech reviewer, if criminalist is no longer at OCME)

Suspect/Offender Side - fields that must be entered if present in case documentation:

- Lab/Barcode/Offender ID (twice)
- Last Name
- First Name
- Complaint number
- NYSID or other state's ID number (add a leading zero to the NYSID if needed, to achieve the format 12345678L, so that the DNA HIT will be able to propagate into NYPD's ECMS system correctly)
- FBI #
- Voucher (for suspect samples)

Notes section:

Statement regarding forensic sample being a mixed profile or partial profile. This match is to a xx-locus, partial, profile. This match is to a xx-locus, mixed, profile.

- 5.6.11 Have the technical reviewer approve the match in DNA HITS. Once approved, the assigned analyst and technical reviewer will receive a DNA HITS confirmatory email from <u>DNAHITS@cityhall.org</u>.
- 5.6.12 Print out the DNA HITS email confirmation and add to the case record.

5.7 Verifying and Reporting Missing and Unidentified Person Matches

5.7.1 General Search Guidelines:

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FFECTIVE APPROVED BY CODIS Manager 4/2018 CODIS Manager There are varied searches done in CODIS to accommodate M Person cases. "Exact matches" are the result of an identity se done amongst the following indices: • Unidentified Human Remains to Unidentified Human Remains	
There are varied searches done in CODIS to accommodate M Person cases. "Exact matches" are the result of an identity se done amongst the following indices:	issing and Unidentified
• Unidentified Human Remains to Unidentified Human Rema	
Unidentified Human Remains to Missing Persons	ins
Profiles of Unidentified Human Remains and Missing Person Convicted Offenders and Forensic Unknowns. Searches are p following indices:	
 Unidentified Human Remains to Convicted Offenders Unidentified Human Remains to Forensic Unknowns Missing Persons to Convicted Offenders Missing Persons to Forensic Unknowns 	
 Pedigree Tree to Unidentified Human Remains Single Typed Node pedigree trees to Unidentified Human Remains Biological Mother, Father, and Child to Unidentified Human 	emains 1 Remains
Exact Matches in CODIS	
Local Level Exact Matches (LDIS):	
Unidentified Human Remains to Unidentified Human Rema Human Remains to Missing Persons	ins and/ or Unidentified
Request and pull the case files.	
Confirm that the profiles match by reviewing the data.	
Compare the information available in the files. Some question	ns to consider are:
	 Convicted Offenders and Forensic Unknowns. Searches are p following indices: Unidentified Human Remains to Convicted Offenders Unidentified Human Remains to Forensic Unknowns Missing Persons to Convicted Offenders Missing Persons to Forensic Unknowns Ranks or associations to relatives of Missing Persons in a ped pedigree search. A pedigree search is done amongst the follow Pedigree Tree to Unidentified Human Remains. Single Typed Node pedigree trees to Unidentified Human Refer to the NYS CODIS Procedures-Search Parameters and Searches (Operational Procedures) from the FBI for search parameters and Searches in CODIS Exact Matches in CODIS Exact matches in CODIS occur between profiles from Unider searched against profiles of Unidentified Human Remains and Missing Persons. Local Level Exact Matches (LDIS): Unidentified Human Remains to Unidentified Human Remains to Missing Persons Request and pull the case files.

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- Are physical descriptions such as age, race, stature, hair color, eye color, tattoos, scars, etc. indistinguishable?
- Are fingerprints, dental records, or other medical records available for comparison? If these are available, the information should be shared with the appropriate departments for comparison such as the Forensic Anthropology Unit, Forensic Odontology, Forensic Pathology, or NYPD.
- Determine if the samples were tested in concordance with the duplication guidelines.
- Determine whether the matching samples were processed together:
- Evidence exam on the same date and/or by the same analyst?
- DNA extraction and/or amplification worksheet with the same date and time?
- If so, see your supervisor or technical reviewer and Assistant Director immediately.
- Determine if additional technologies such as Y-STRs or mtDNA are needed to confirm or refute the match.

Transfer the newly linked case/or cases to the interpreting analyst from the previous case or to the analyst that has the lowest FB case number. Have your supervisor update records to reflect the new case assignment. (This step can be done after notifications, if desired.)

Once all is confirmed, notifications can be made via telephone and/or email.

An additional report is written linking the two cases together. Random match probability statistics are performed on the unidentified human remains and included in the report in accordance with Forensic Biology protocol.

A notification letter and a copy of the additional report are sent via email to notify all involved parties of the match. For matches with unidentified remains from NYC OCME, the assigned Medical Examiner, Identification Unit, and NYPD Missing Persons are always notified. Matches involving outside jurisdictions will be sent to that jurisdiction's designee(s). The notification letter may be sent by emailing a scanned .pdf copy of the original signed letter and/or facsimile.

5.7.2.3 State Level Exact Matches (SDIS)

Missing persons samples at SDIS are included in the weekly searches for direct matches within the offender or forensic indices. Pedigree and low-stringency searches at SDIS are done less often (monthly or quarterly).

5.7.2.4 National Level Exact Matches (NDIS):

Unidentified Human Remains to Unidentified Human Remains and/or Unidentified Human Remains to Missing Persons

With DNA matches identified at NDIS, both laboratories involved in the match have confirmation responsibilities.

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Responses to all candidate matches must be immediate. The final disposition of the candidate match to the NDIS custodian must be reported no later than 30 business days after receiving the match report.

The CODIS staff will print out the Candidate Match Detail Reports from the CODIS system along with a Match Inventory list (a summary list of all the cases involved in the candidate matches) and retrieve the corresponding files.

Each candidate match report and corresponding file or LIMS case record must be reviewed to confirm whether or not the two profiles indeed match. The analyst reviewing the file must fill out a <u>Candidate Match Confirmation Checklist</u>.

If any modifications to the DNA profile are needed, a Profile Modification Form must be filled out by the Interpreting Analyst or the analyst reviewing the data (see section 4.6), and submitted to the CODIS group. It is not necessary to wait for the profile to be modified to continue the confirmation process.

Compare the information available in the files. Some questions to consider are:

- When was the body recovered in relation to when the person was reported missing?
- Are physical descriptions such as age, race, stature, hair color, eye color, tattoos, scars, etc. indistinguishable?
- Are fingerprints, dental records, or other medical records available for comparison? If these are available, the information should be shared with the appropriate departments for comparison such as the Forensic Anthropology Unit, Forensic Odontology, Forensic Pathology, or NYPD.
- Determine if the sample(s) were tested in concordance with the duplication policy.
- Determine whether the matching samples were processed together:
- Evidence exam on the same date and/or by the same analyst?
- DNA extraction and/or amplification worksheet with the same date and time?

If so, see your supervisor or technical reviewer and Assistant Director immediately.

Determine if additional technologies such as Y-STRs or mtDNA are needed to confirm or refute the match.

Once all is confirmed, notifications can be made via fax or email.

An additional report is written. Statistics are performed on the unidentified human remains or the missing person profile and included in the report in accordance with Forensic Biology protocol. If the remains are intact or living person is found, then the profile should be removed from CODIS and noted in the additional report. Refer to Section 4.6.

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A notification letter and a copy of the report are sent via email to notify all involved parties of the match. For matches with unidentified remains from NYC OCME, the assigned Medical Examiner, Identification Unit, and NYPD Missing Persons are always notified. Matches involving outside jurisdictions will be sent to that jurisdiction's designee(s). The notification letter may be sent by emailing a scanned .pdf copy of the original signed letter and/or facsimile.

- 5.7.3 Exact Matches in CODIS
- 5.7.3.1 Unidentified Human Remains to SDIS offender exact matches

If the profiles are an exact match, complete a NYS DNA Databank Candidate Match Confirmation Form. This form communicates to DCJS and the Databank coordinator the case information, and that the candidate match is, in fact, a true match. Therefore, one <u>NYS DNA Databank Candidate Match Confirmation Form</u> for every confirmed candidate match listed on the Match Inventory must be completed. The NYS DNA Databank Candidate Match Confirmation Form is then transmitted to DCJS by fax or other electronic means.

Upon receipt of the <u>NYS DNA Databank Candidate Match Confirmation Forms</u> from our laboratory, and upon receipt of confirmation of the offender sample from the NYS DNA Databank coordinator, DCJS will release the offender's name, via fax followed by USPS, in the form of a DCJS Match Letter (see the current version of the *New York State COmbined DNA Index System Procedures*). This letter will contain the name of the offender, any aliases, and the NYSID number.

Request and pull the case file.

Confirm that the profiles match by reviewing the data.

Determine if the sample was tested in concordance with the duplication guidelines.

Once all is confirmed, notifications can be made via telephone and/or email to the OCME Identification Unit and to the Medical Examiner.

An additional report is written. Random match probability statistics are performed on the unidentified human remains and included in the report in accordance with Forensic Biology protocol.

A notification letter and a copy of the additional report are sent via email to notify all involved parties of the match. For matches with unidentified remains from NYC OCME, the assigned Medical Examiner, Identification Unit, and NYPD Missing Persons are always notified. The notification letter may be sent by emailing a scanned .pdf copy of the original signed letter and/or facsimile.

5.7.3.2 Unidentified Human Remains to NDIS offender exact matches

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After the data is reviewed, the other laboratory involved in the match must then be notified via telephone, fax or email and the match verified. Both laboratory's case numbers and ORI numbers are on the Match Inventory list. The contact information for all CODIS laboratories can be found on the CJIS-WAN. Standard case contact protocol should be followed to document any correspondence or conversations.

If it is determined the candidate match is a non-match, the process stops here. All case contacts should be documented on the checklist accordingly.

If it is verified to be a true match, information regarding the cases must be exchanged. The CODIS DNA Match Data Request and Response Form is transmitted to the offender laboratory by fax or other electronic means. This form facilitates the exchange of information. Information on this form, if available, should include:

- Contact information for the submitting police agency.
- Contact information for the laboratory.
- Laboratory and police identification numbers (for example, case number, complaint number, etc.).
- Whether the case is solved (i.e. by DNA).
- Suspect information (for example, name, NYSID number, has he/she been tested at our lab, etc.).
- General case information (for example, date of occurrence, type of crime, etc.).
- If the case with the match at NDIS is one of a local pattern, information regarding both/all should be provided to the other laboratory.
- When available, include any known aliases of the offender/suspect if the case is solved, because the offender/suspect may be in the other database under a different name.

Upon receipt of the CODIS DNA Match Data Request and Response Form from our laboratory, and upon the offender laboratory's confirmation of the offender sample, the match is confirmed. The offender laboratory will release the convicted offender's name, via fax, in the form of a match letter. This letter will contain the name of the offender, any aliases, the State ID #, and often an FBI number or social security number.

- Request and pull the case file.
- Confirm that the profiles match by reviewing the data.
- Determine if the sample was tested in concordance with the duplication guidelines.

Once all is confirmed, notifications can be made via telephone and/or email to the OCME Identification Unit and to the Medical Examiner.

An additional report is written. Random match probability statistics are performed on the unidentified human remains and included in the report in accordance with Forensic Biology protocol.

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A notification letter and a copy of the additional report are sent via email to notify all involved parties of the match. For matches with unidentified remains from NYC OCME, the assigned Medical Examiner, Identification Unit, and NYPD Missing Persons are always notified. The notification letter may be sent by emailing a scanned .pdf copy of the original signed letter and/or facsimile.

5.7.4 Ranks in CODIS

- Pedigree Tree to Unidentified Human Remains (UHR)
- Single Typed Node pedigree trees to Unidentified Human Remains (UHR)
- Pedigree Tree to Missing Person (MP)
- Biological Father, Mother, Sibling (with additional technology) to UHR or MP
- 5.7.4.1 Profile(s) from a pedigree tree associated to unidentified human remains or a missing person are ranked according to a joint pedigree likelihood ratio (JPLR) in Rank Manager. Any JPLR above 500 will constitute a rank.
- 5.7.4.2 The CODIS staff will print out the Specimen Detail Reports for the associated ranks to the pedigree tree or single relative.

Fill out the Rank Manager Sample Inquiries Form.

Locate the files and determine if the JPLR constitutes a true association.

Some questions to help in the disposition:

- Does the gender of the Missing Person correlate to the UHR?
- When was the body recovered in relation to when the person was reported missing?
- If further investigation is still needed, then review the STR data and perform kinship analysis.
- If an additional technology such as mtDNA has been performed, utilize that in the assistance of the disposition of the case.
- Determine if additional technologies such as YSTRs or mtDNA need to be performed.
- Determine if additional reference samples from relatives of missing persons or samples from the missing person are available and needed to assist in the identification (i.e. strengthening the likelihood ratio or assisting in confirming an association via a direct match with a reference sample from the missing person).

If the association does not pan out, note it as "No Match" and initial and date the Specimen Detail Report and make comments on the Rank Manager Sample Inquiries Form.

For true associations, notifications can be made via telephone and/or email.

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An additional report is written. Kinship analysis is performed between the relatives of the Missing Person and the unidentified human remains or the missing person profile and included in the report in accordance with Forensic Biology protocol. The profiles of the relatives of the Missing Person must be removed from CODIS and noted in the additional report. Refer to <u>Section 4.6</u>.

A notification letter and a copy of the report are sent via email to notify all involved parties of the match. For associations to unidentified remains from NYC OCME, the assigned Medical Examiner, Identification Unit, and NYPD Missing Persons are always notified. Associations involving outside jurisdictions will be sent to that jurisdiction's designee(s). The notification letter may be sent by emailing a scanned .pdf copy of the original signed letter and/or facsimile.

- 5.7.5 Low stringency searches in CODIS
- 5.7.5.1 NY State performs a low stringency search every quarter against the remaining Relatives of Missing Person samples in the state database against the Unidentified Human Remains index in CODIS.
- 5.7.5.2 For verifying and reporting these possible matches, follow the same steps above in <u>5.7.4</u> <u>Ranks in CODIS</u>.

5.8 Organization of CODIS Paperwork in Case Records

- 5.8.1 For LIMS era case records, CODIS documentation is added to the case record electronically.
- 5.8.1.1 Events that should be noted on the DNA Profile Evaluation page in LIMS include:
 - Initial LINKAGE search (date, analyst, and any true matches found)
 - Initial LDIS search (date, analyst, and any true matches found)
 - Initial LabTypes search (date, analyst, and any true matches found)
 - No-matches discovered in LDIS, SDIS or NDIS searches, one event line per search type; approximately 10 specimen IDs. Use "Profile does not match in" as the event type.
 - Profile entry into LDIS (date, analyst)
 - Date profile upload/search confirmed in SDIS/NDIS when applicable (date, analyst)
 - Date profile confirmed to be in LDIS (for non-uploaded categories)
- 5.8.2 In pre-LIMS era files, the documentation is arranged as follows:
 - <u>Left side of file</u>: if all paperwork was properly completed and photocopied, the left side of the file with a confirmed match should contain:
 - DNA Profile Evaluation Form copy
 - Specimen Detail Report printout from CODIS

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NOTE:	It is not neo next items	 Candidate Match Detail Report - printout from CODIS. It is not necessary to write "match", with date and initials on this printout, because the next items in the case record will be what was done to complete the confirmation and report the match. 			
	Candidate 1DCJS Mate	Match Confirmation Checklist - original Match Confirmation Form - copy th Letter – copy sent by DCJS (or comparable form confirmation email – printout from email (CODIS			
5.8.2.1		te match is reviewed and found to NOT be true mate	ich, include:		
	• CODIS No pre-LIMS and more n	n-Matching Comparison Record – list each no-mat era case. There may be more than one no-match lis hay be added as future searches are conducted. Use e in the case, adding additional pages as necessary.	sted for any given profile, e a separate worksheet for		
5.8.2.2		Match cases, the left side of file depending on the ty or all of the following:	pe of match and level may		
	 Specimen I Candidate Partial Mat Likelihood Hit Notifica 	documentation report Detail Report - printout from CODIS Match Detail Report - printout from CODIS <u>ch Evaluation Form</u> ratios – printout from CODIS Popstats application ation Letter-original or copy, PDF of original saved ' in "MISP" for Missing Persons identification case	l in CODIS folder under		
5.8.2.3	some or all o Forensic B DNA Profi Specimen I Candidate I Hit Notific	 For Missing Persons cases, left side of file depending on the type of match may have some or all of the following: Forensic Biology report(s) DNA Profile Evaluation Form-copy Specimen Detail Report - printout from CODIS Candidate Match Detail Report - printout from CODIS Candidate Match Confirmation Checklist – original Hit Notification Letter-original or copy, PDF of original saved in CODIS folder under "HITNOT" in "MISP" 			
5.8.2.4		on the type of match and at what level it may have on the left side of the file:	occurred, the following		

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- Candidate Match Confirmation Form-copy
- DCJS Match Letter-faxed copy
- Supporting paperwork such as copies of dental records, anthropology reports and scene reports from within OCME or from the outside jurisdiction.

